

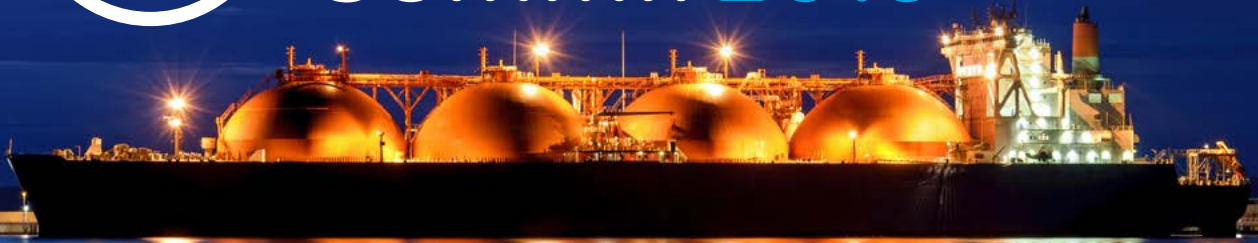
Europe's fastest growing and largest LNG Bunkering event focusing on active projects from across the entire value chain

Oil & Gas **iQ**

Interactive Focus Day: 29th January 2019
Main Conference: 30th & 31st January 2019
Novotel Hotel, Amsterdam, The Netherlands








LNG Bunkering Summit 2019



Promoting LNG as the Fuel of the Future through Supply Chain Development and Innovation

Ensure you make the right decisions, by:

-  **Evaluating the commercial viability** of LNG as a marine fuel and **calculating accurate payback predictions** presented by major shipping companies such as **Baleària, BC Ferries, DEME, Anthony Veder, Brittany Ferries, Spliethoff** and **Carnival**
-  Assessing alternative shipping fuel concepts and their feasibility by hearing from the likes of **Tote, Carnival, Spliethoff** and **Baleària** on their perceptions of ROI, operational efficiency and environmental impacts
-  Solving common LNG Bunkering problems at a strategic and operational level by participating in **expert led, structured discussion groups with the entire value chain**
-  Discovering the latest progress in LNG infrastructure developments across the globe including updates from across **Asia, Canada, US,** and **Europe** to help build your business case for shifting to LNG as a marine fuel
-  Understanding the latest **regulatory updates and discussing operational procedures** and challenges to reduce risk and ensure your team remains safe and compliant

Learn from the experts:

-  **Pablo Garcia**, Fleet Project Manager, **Baleària**
 -  **Peter Keller**, Executive VP, **Tote** & Chairman, **SEALNG**
 -  **Paul Radford**, Engineering Superintendent, **BC Ferries**
 -  **Qiao Yu**, GM of LNG Bunker Project, **China National Offshore Oil Corporation**
 -  **Cees Boon**, Sector Coordinator Harbour Master Policy Department, **Port of Rotterdam**
 -  **Xavier Pfeuty**, LNG Managing Director – Total Marine Fuel Global Solutions, **Total**
 -  **Guus Vogels**, Sales Manager, **Vopak**
 -  **Tom Strang**, Senior Vice President, Maritime Affairs, **Carnival Corporation & plc**
 -  **Jan Gabriel**, Head of Construction and Conversion Department, **DEME**
- See inside for the full list of speakers**

Early Confirmed Sponsors Include:





LNG Bunkering Summit 2019

Dear Colleague,

With recent market reports predicting the LNG Bunkering market will reach \$10.1 Billion by 2023, 2019 certainly promises to be an exciting year.

Evidently the “chicken & the egg” scenario is being eroded globally, with more infrastructure becoming operational, new infrastructure projects in the pipeline and the LNG vessel order book increasing in 2018.

Europe continues to lead the way boasting the majority of LNG bunkering ports, but we are also seeing projects in Southeast Asia and in the US developing quickly. However, in some parts of the world, these services are almost totally absent.

It is clear therefore that the industry across the entire globe must continue to focus on developing partnerships and improving the supply chain to maintain the sectors growth.

With this in mind, the 7th LNG Bunkering conference will focus on the following areas:

- Building the business case for LNG as a fuel and ensuring you maximise the return on investment
- Global developments in supply chain and infrastructure to advance LNG bunkering
- The development of operational and safety procedures
- Design, development and advancements in LNG Bunkering infrastructure
- Flexible and cost effective LNG fueled vessels with conversion options
- LNG crew training, development and management
- Researching and considering alternative shipping fuels that can meet stringent targets

These industry drivers will be covered through a series of real life examples, case study presentations and roundtable discussions from leading operators, shipping companies, government organisations, regulatory authorities and ports that have delivered successful projects from initial scope through to operation.

I look forward to seeing you in Amsterdam.

Kind regards,



Mark Giles
Conference Director
LNG Bunkering

Introducing the Advisory Board

Whilst the LNG Bunkering Summit has seen significant growth over the last three years, we appreciate that to continue its growth and maintain the quality of content and speaker faculty, we need assistance from the LNG sector.

To that effect, we are proud to announce our newly formed industry advisory board that will continue to provide feedback and influence decisions for future events.

Your 2019 Advisory Board



Didier De Beaumont
Project Leader Energy Cluster
Port of Amsterdam



Peter Keller
Executive Vice President
Tote Inc.



Gerben Dijkstra
Business Development Manager
Anthony Veder



Stefaan Adriaens
Commercial Manager
Gate Terminal B.V.



Paul Radage
Sales Director
Trelleborg Marine Systems UK



Tom Strang
Senior Vice President
Carnival Corporation & plc, Maritime Affairs



Roger Göthberg
Managing Director
MAN Energy Solutions



Jan Schubert
Sales & Business Development Senior Manager
Nauticor



Sjaak Klaap
VP - Business Development
Spliethoff



Raymond van Gend
Sales Manager
Mampaey Offshore Industries



Kwinten Standaert
Key Account Officer
Fluxys

Here's what previous attendees say:

A packed schedule, something for most people. It was useful in seeing how the pace at which the small-scale sector is developing"

Robert Songer, ICIS, 2018 Attendee

"Very informative and good variety of subjects, quality of organization and information provided, good networking"

Antonis Trakakis, Arista Shipping, 2018 Attendee

"It has been really valuable. The presentations given by the speakers covered all aspects of the value chain as well as all interested parties. This Summit showed that there is lots of progress in LNG developments in maritime"

Jurgita Šilinskait-Venslovien, KN, 2018 Attendee

"It has been an opportunity to talk about new projects, know trends in LNG bunkering sector and contact people. A very good event for networking"

Igor Blanco, Ghenova, 2018 Attendee

"Very focused event, hence good use of time. It was a good summary of the LNG Bunkering world in Europe."

Varun Daga, Mampaey Offshore Industries, 2018 Attendee

"The LNG Bunkering Summit was a success. The presenters are experts and they have credible track record in LNG bunkering. The event also provides a very good networking for me to reach LNG bunkering partners and explore potential collaborations with them"

Syafiq Bahrain, MISC Berhad, 2018 Attendee

Meet The Speakers



Qiao Yu,
GM of LNG
Bunker Project,
**China National
Offshore Oil
Corporation**



Pablo Garcia,
Fleet Project
Manager,
Baleària



Peter Keller,
Executive VP,
**Tote & Chairman,
SEALNG**



Guus Vogels,
Sales Manager,
Vopak



Paul Radford,
Engineering
Superintendent,
BC Ferries



Bertrand Crispils,
Technical
Superintendent,
Brittany Ferries



Patrick Jansens,
VP Global Gas
Solutions,
ABS



Hadi Farhoud,
Head of Strategy
& Marketing,
GTT



Daniel Deschodt,
Commercial
Director,
Port of Dunkirk



Guillaume Brossard,
Director – LNG
Market
Development,
Energir



Antonio Illescas,
Business
Development
Manager,
Swedegas



**Jean Pierre
Guellec,**
CEO,
**GIE Dragages-
Ports**



**Ignacio Poblet
Gonzalez,** LNG
Project Manager
and Business
Development
Manager,
Cotenaal



**Christian
Satorius,**
Sales Manager,
Arta



Tom Strang,
Senior Vice
President,
Maritime Affairs,
**Carnival
Corporation
& plc**



Cees Boon,
Sector Coordinator
Harbour Master
Policy Department,
Port of Rotterdam



Nasir Zubairu,
Doctoral Research
Scholar / Associate
Lecturer,
**Plymouth
Business School**



Jan Gabriel,
Head of
Construction
and Conversion
Department,
DEME



Harly Penner,
Engineering
Superintendent,
LNG Vessels,
**Seaspan Ferries
Corporation**



Peter Harbo,
Business
Development
Manager,
Port of Esbjerg



Sjaak Klap,
VP Business
Development,
Spliethoff



**Jurgita
Šilinskaite-
Vensolviene,**
Head of LNG
Services,
KN



Stefaan Adriaens,
Commercial
Manager,
Gate Terminal



**Didier De
Beaumont,**
Commercial
Manager,
**Port of
Amsterdam**



**Santiago de
Andres Herrero,**
Business
Development
Manager Marine
Engineering,
Sener



Angel Rojo,
Head of Commercial
Development and
Clients,
Enagás



Oscar Kallerdahl,
Vice President
LNG Systems,
Rolls Royce



Roger Göthberg,
Managing Director,
**MAN Energy
Solutions**



Paul Radage,
Sales Director,
**Trelleborg
Marine Systems
UK Ltd**



Nigel Edwards,
Business
Development
Manager – LNG,
MannTek

Meet The Speakers



Clean shipping powered by Linde

Jan Schubert,
Sales & Business
Development
Senior Manager,
Nauticor



**Cécile
Grégoire-David,**
Business
Development &
External Relations,
**Dunkerque
LNG SAS**



Daniel Kemp,
Business
Development
Manager, Marine
Fuel Solutions,
Emerson



Xavier Pfeuty,
LNG Managing
Director – Total
Marine Fuel Global
Solutions,
Total



Frank Hartevelde,
Director Sales and
Marketing,
**Wärtsilä Gas
Systems**



Stuart Carpenter,
LNG Project
Director,
**Carnival
Corporation
& plc**



Frans Duwaer,
Director,
Victrol



ANTHONY VEDER

Gerben Dijkstra,
Business
Development
Manager,
Anthony Veder



Tom Stuchfield,
Editor,
Oil & Gas IQ



**Javier Cervera
Alonso,**
Head of LNG
Bunkering
Development,
Naturgy



Arjan Stavast,
Business
Development
Manager Global
Marine - LNG for
Transport,
Shell



Paul Taylor,
Global Head
of Shipping
& Offshore,
**Societe
Generale CIB**



**Kwinten
Standaert,**
Key Account
Manager,
Fluxys Belgium



**Dietmar
Zutt,** Head of
Sales Marine,
**MAN Energy
Solutions**



Joris van Kreij,
Global Business
Development
Manager,
Marine LNG
Solutions, **Chart
Industries Inc.**



**Panos
Koutsourakis,**
Global Technology
Leader -
Sustainable Ships,
Bureau Veritas



**Guillaume
Paternostre,**
LNG Bunkering
Business
Developer,
ENGIE



Paul Ocholla,
Commercial
Advisor Break
Bulk LNG,
GrainLNG



Yves Bui,
LNG Project
Director,
New Building
Department,
MSC



**Eugenia
Bertrand
Alonso,** Head
of LNG Bunker
Business
Development,
Repsol

Strategic and Technical Interactive Focus Day

29 January 2019

Last year's event marked the launch of our Interactive Focus Day which saw over 85 LNG specialists tackle common problems and objectives through expert led content, interactive discussions and practical exercises.

The real value was in the format; whilst presentations are a great source of information; this style of learning presented an opportunity to work on unique topics and problems as a group, offering multiple perspectives and a collaborative conclusion with the entire value chain.

What is the set up for the 2019 Interactive Focus Day?

- 2 streams focusing on:
 - o Strategic challenges including planning, building the business case as well as developing policies and procedures
 - o Technical challenges including ship design, decision making, maintenance and performance optimisation
- 10 topics to choose from covering 5 in each stream
- 1.5 hours per session
- Select the streams and topics that are aligned to your unique objectives

How does the Interactive Focus Day work?

- Start of the day: Introduction to the day, ice-breaker, meet & greet and speed networking
- Select the stream and topic you would like to participate in
- Select the table and group you would like to work with on the exercise
- Meet and greet with the group – sharing challenges and objectives
- Expert facilitator sets the scene, presents content and drives discussion:
 - o 10 minute meet and greet
 - o 20 minute presentation
 - o 45 minute discussion
 - o 15 minutes summary and conclusions





This style of networking and learning allows the discussions to flow more seamlessly and create an opportunity to work through current problems by using the collective experience, not just from the facilitator, but all participants who may have varying backgrounds, experience, knowledge and skills.

Ultimately, it creates an opportunity to share insights into technical and strategic topics, as well as a way for delegates to get to know each other before the main event!

Agenda

8:30 **IQPC Welcome and Interactive Focus Day Introduction**
Mark Giles, Conference Director, IQPC

8:35 **ICE-BREAKER**
 In order to boost networking and interactivity, the interactive focus day will begin with an opportunity for everybody to get to know one another.
 Attendees will then have 25 minutes to discuss their key objectives for attending the event which will be documented and used as a tool to influence discussions throughout the entire conference.

	Strategic Track	Technical Track
9:00	<p>Building the Business Case for LNG: Study Overview, Business Case Process and Outcomes This session will provide insights from the Port of Esbjerg and their involvement in the funded project "Green Cruise Port". They were tasked with completing an LNG study to attract cruise liners into their port.</p> <ul style="list-style-type: none"> • Investigation: Evaluating LNG supply chains, infrastructure, safety, LNG supply costs and market conditions • Building the business case: Describing the approach to building the business case, timelines and metrics • Highlighting the key issues with the Port business plan • Conclusion: Understanding why LNG was not a viable option and how these learnings can apply to other organisations <p><i>Facilitator: Peter Harbo, Business Development Manager, Port of Esbjerg</i></p> 	<p>Operational Experience of LNG Fuelled Vessels</p> <ul style="list-style-type: none"> • Articulating the process of building the business case and making the decision to adopt LNG as a fuel • ROI: Assumptions, predictions and operational results to date • Highlighting operational challenges relating to LNG Fuelled vessels, how to overcome them and optimising performance <p><i>Facilitator: Gerben Dijkstra, Business Development Manager, Anthony Veder</i></p> 

Strategic and Technical Interactive Focus Day

Tuesday 29 January 2019

	Strategic Track	Technical Track
10:30	<p>Development of LNG Small Scale & Bunkering Infrastructures in Spain</p> <ul style="list-style-type: none"> Development of LNG Small Scale & bunkering infrastructures in Spain Coordinating the CORE LNGas Hive: Development of the infrastructure required for the use of LNG as a fuel and bunkering in the Iberian Peninsula Analysis of optimized combined logistic solutions to attend LNG bunkering demand through implementation of modular infrastructures <p><i>Facilitator: Ángel Rojo Blanco, Commercial Development and Clients, Enagás</i></p> 	<p>Technical Overview of Sener's Recent Projects</p> <p>Topics could include, but not limited to:</p> <ul style="list-style-type: none"> FSRU and FSRU+ Power barge LNG Bunkering Unit formed by Dual Fuel Tug+ LNG Bunkering Pontoon LNG Bunkering vessel <p><i>Facilitator: Santiago de Andres Herrero, Business Development Manager Marine Engineering, Sener</i></p> 
12:00 Lunch Break		
13:00	<p>Preparing Ports for LNG Bunkering</p> <ul style="list-style-type: none"> Latest developments in LNG Bunkering Procedures and Standards Infrastructure preparation and facility development: Deciding types of infrastructure, design, location and equipment required Preparing LNG vessels for LNG Bunkering LNG Bunkering safety and risk management <p><i>Facilitator: Cees Boon, Sector Coordinator Harbour Master Policy Department, Port of Rotterdam</i></p> 	<p>Membrane Tanks for Small Fuel Tanks</p> <ul style="list-style-type: none"> Would it even be possible to use membrane tanks for small fuel tanks? What would be the advantages and disadvantages of using this approach? What are the perceived complexities associated with it and what would be the perceived challenges? What else would be worth exploring: Possibilities, advantages, challenges and solutions? <p><i>Facilitators:</i></p> <p>Pablo Garcia, Fleet Project Manager, Baleària </p> <p>Ignacio Poblet Gonzalez, LNG Project Manager and Business Development Manager, Cotena </p>
14:30	<p>Challenges for LNG as a Fuel in the UKLNG</p> <ul style="list-style-type: none"> Current challenges experienced in the market Possible solutions from relevant market players Summary of what Grain LNG offering <p><i>Facilitator: Paul Ocholla, Commercial Advisor Break Bulk LNG, GrainLNG</i></p> 	<p>By now, you have discussed your event objectives and uncovered a common theme running throughout both days. However, you will have a unique challenge or problem that needs solving, and it is critical that we seek out those golden nuggets of information that will really help develop the best strategy for building the case for LNG.</p> <p>Topics could include, but not limited to:</p> <ul style="list-style-type: none"> Operational management: Risk Management, Maintenance, Safety and Crew Training Asset management and maintenance plan LNG Crew training, development and management
16:00 Afternoon Break		
16:30	<p>Impact of Supply Chain Capabilities on LNG Financial Performance</p> <ul style="list-style-type: none"> Evaluating the relationship between supply chain management (SCM) and LNG financial performance Realising the full financial benefits from across LNG supply chains by optimising the levels of integration and technology implementation <p><i>Facilitator: Nasir Zubairu, Doctoral Research Scholar / Associate Lecturer, Plymouth Business School</i></p> 	<p>Financial Calculations and Costs of Conversions</p> <ul style="list-style-type: none"> Strategies used to evaluate the cost of converting vessels into LNG Calculating the incremental costs for dual-fuel vs. diesel only Understanding the payback periods for the investment Ensuring there is LNG supply available <p><i>Facilitator: Harly Penner, Engineering Superintendent, LNG Vessels, Seaspan Ferries Corporation</i></p> 
18:00	End of the Interactive Focus Day	

Conference Day One

Wednesday 30 January 2019



07:30 Registration & Networking Coffee

08:00 **Opening Remarks from the Conference Chair**
Hadi Farhoud, Head of Strategy & Marketing, GTT



08:10 **Asian Market Outlook: Current LNG Market within Asia and China's Role in the Development of LNG Bunkering**

- CNOOC: Company overview and LNG strategy
- Overview of the four bunkering centres in China
- Review the two LNG Vessels on order
- Share some insights into the inland river bunkering station

Qiao Yu, GM of LNG Bunker Project, China National Offshore Oil Corporation



08:40 **Germany: Building, Owning and Operating Brunsbüttel's LNG Import Terminal**

- Details of the joint venture: Purpose, partners, roles and responsibilities
- Terminal services: Discharge and loading of LNG ships, storage of LNG, regasification and LNG distribution via trucks and barges
- Project progress: Achievements to date, future plans, permit applications and project milestones
- Market perspective of LNG as an environmentally friendly and cost effective alternative for industry and as a shipping fuel

Guus Vogels, Sales Manager, Vopak



09:10 **Accelerating the Use of LNG as a Marine Fuel: Global Outlook**

- How has the LNG Bunkering market evolved over the last 12 months and how have Total contributed to its progress across the globe?
- Strategic acquisitions and how they will strengthen Total's offering in the LNG Bunkering market
- Progress being made with shipping supply deals across the globe
- Current and proposed LNG bunkering solutions and timelines for availability

Xavier Pfeuty, LNG Managing Director – Total Marine Fuel Global Solutions, Total



9:40 **Alternative Fuels and Technologies for Sustainable Shipping**

This panel session will review alternative fuel concepts for the shipping sector with an emphasis on conversion challenges, ROI, operational efficiency, fuel properties and the environmental impact. Ultimately, the discussion will focus on how to meet short and long term carbon reduction targets.

- Assessing different types of alternative fuels that are being considered and explored outside of LNG?
- Exploring the cost, environmental compatibility and availability of these fuels?
- What are the considerations over the full life-cycle rather than just the fuel combustion stage?
- What barriers are holding back progress and how can the industry overcome them?
- What types of technologies are being applied to vessels to reduce emissions?
- How can the entire value chain collaborate effectively in the future to continue exploring alternative fuels and technology?

Moderator: **Peter Keller, Executive VP, Tote & Chairman, SEALNG**

Panellist: **Tom Strang, Senior Vice President, Maritime Affairs, Carnival Corporation & plc**

Panellist: **Sjaak Klap, VP Business Development, Spliethoff**

Panellist: **Pablo Garcia, Fleet Project Manager, Baleària**

Panellist: **Yves Bui, LNG Project Director, New Building Department, MSC**

Panellist: **Paul Taylor, Global Head of Shipping & Offshore, Societe Generale CIB**



10:30 **LNG: A Success for the Norwegian Coast Route**

- Reviewing the 10 LNG vessels to operate throughout the Norwegian coast line from 2021
- Holistic view on design
- Retrofit
- Hybrid solutions + LNG for low emissions

Oscar Kallerdahl, Vice President LNG Systems, Rolls Royce



11:00 Morning Coffee Break

11:30 **LNG Bunkering: Ship-Shore Links for Today and Tomorrow**

- Reviewing the LNG Ship-Shore link history, the bunkering links today and understanding the key link considerations
- Addressing the emerging LNG small-scale transfer, bunkering and fuelling spaces as well as the emergency shutdown link
- Exploring various case studies where these applications have been utilised and future technology

Paul Radage, Sales Director, Trelleborg Marine Systems UK Ltd



11:50 **Environmental Impacts of LNG: The Truth Behind LNG as a Marine Fuel**

- Theory: What were the initial assumptions relating to emissions and the cost value of utilising LNG fuel within the vessels
- Results: Measuring performance, encountering unexpected problems and identifying opportunities to optimise operational efficiency
- Optimisation: Changing the way in which the vessel is operated especially when idling
- Value: Enhancing performance to reduce emissions and secure financial incentives

Harly Penner, Engineering Superintendent, LNG Vessels, Seaspan Ferries Corporation

Dietmar Zutt, Head of Sales Marine, MAN Energy Solutions



12:20 **Port of Zeebrugge: Ship-to-Ship LNG Bunkering**

Guillaume Paternostre, LNG Bunkering Business Developer, ENGIE

Kwinten Standaert, Key Account Manager, Fluxys



13:00 **Technology Demonstrations: Quick Fire Technology and Product Demonstrations**

This is your opportunity to meet with the vendors in our exhibition hall to learn more about the technology and services that are designed to support you on your projects.

These tech demos will last approximately 10 minutes on four cycles with the opportunity to continue your discussions throughout the lunch break at their exhibition stands.

Interactive Session

14:40 **Reducing Risk by Applying Coriolis Mass Flow Metering Solutions for LNG Measurement**

- Design considerations for LNG measurement systems: What to measure and how
- Overview of Coriolis Mass Flow Metering solutions for LNG applications
- Ensuring transparency and traceability for LNG custody transfer

Daniel Kemp, Business Development Manager, Marine Fuel Solutions, Emerson



15:00 **Developing LNG Bunkering Capabilities within the Dunkirk Region:**

- Overview of LNG development and capability within the Port of Dunkirk:
 - o LNG strategy and drivers: The rationale of focusing on LNG within the port and how they are driving it forward
 - o Current and future LNG projects within the port and region
 - o Policy relating to LNG fuelled vessels
- Dunkerque LNG: Current projects including the jetty adaptation and new jetty infrastructure

Daniel Deschodt, Commercial Director, Port of Dunkirk

Cécile Grégoire-David, Business Development & External Relations, Dunkerque LNG SAS



15:30 **Current and Future LNG Developments within the Port of Amsterdam**

- LNG's role in realising the Port of Amsterdam's sustainable port vision
- Ensuring regulations, standards and policies are in place
- Developing the physical infrastructure for the jetty
- Additional discounts available for LNG fuelled vessels
- Creating an LNG bunkering map of the port to ensure full visibility for users

Didier De Beaumont, Commercial Manager, Port of Amsterdam



16:00 **Utilising LNG and Combined Solutions for Optimising Energy Efficiency**

- MAN Energy Solutions: Vision, strategy and technological transformation to support the drive towards environmental requirements
- The business case for combined solutions: Optimising fuel efficiency and minimise emissions
- Exploring current and future LNG/combined propulsion solutions that will meet economic, social and regulatory goals
- Case study: Performance review of various vessels currently utilising a combined solution

Roger Göthberg, Managing Director, MAN Energy Solutions



16:20 Afternoon Coffee Break

16:50 **Nitrogen Controlled in Harmony with Physics**

- Understanding the current bunkering challenges of the STS transfer system
- Exploring more advanced solutions such as the N2 PERC system
- Comparing different solutions and their value: Nitrogen vs. Hydraulics
- ESD2 arrangements and new responsibilities for hose requirements

Nigel Edwards, Business Development Manager – LNG, MannTek



17:10 **Gothenburg LNG Terminal: Developing and Accelerating LNG Bunkering Capabilities within the Baltic Region**

- Growing number of LNG consumers served by an efficient LNG logistic chain: Meeting the shipping industry needs
- Insights into the uploading station, cryogenic pipeline and bunkering facility
- Enabling a flexible response to demand for small-scale LNG within this emerging market
- Next steps: Investment plan for expansion by implementing the right strategy to attract ship-owners to the region

Antonio Illescas, Business Development Manager, Swedegas



17:40 **LNG Fuelled Vessels: Optimising Productivity and Environmental Performance through Innovation**

- DEME's LNG fleet investment programme: Vessels in service and vessels on order
- Why LNG is the right solution: Meeting DEME's core values, achieving regulatory compliance, financial payback and environmental performance
- Existing fleet: Technical design review and performance results
- New vessels: Future proofing new vessels that ensure ease of conversion
- Case study: A focus on the next generation offshore installation vessel

Jan Gabriel, Head of Construction and Conversion Department, DEME



18:10 **Closing Remarks from the Conference Chair and Close of Conference Day One**

Hadi Farhoud, Head of Strategy & Marketing, GTT



18:20 **Drinks Reception Proudly Hosted by our Associate Partner, Arta**



Throughout the conference there have been a number of opportunities to network, share ideas and meet new people which will continue well into the evening. Courtesy of Associate Partner, Arta, their hosted drinks reception will be served all guests offering additional opportunities to check out any exhibitions you may have missed during the day and meet new people or catch up with colleagues. This will also be a chance to hear from Arta's guest speakers which will announce a new partnership and share their new Pioneering Bunkering Concepts: Single and Double Barrier Based during the reception.

19:15 **Amsterdam Cruise:**

To maximise your networking opportunity in a fun and unique way, join us for our annual Amsterdam canal tour with dinner and drinks. This is the perfect opportunity to talk shop, meet new contacts, spend time with your colleagues or simply see the beautiful sights of Amsterdam. This tour will be on a first come, first serve basis so book now to avoid disappointment – simply confirm your place when registering.



Book now!

Proudly hosted by Societe Generale CIB SOCIETE GENERALE Corporate & Investment Banking

Conference Day Two

Thursday 31 January 2019



07:30 Registration & Networking Coffee

08:00 **Opening Remarks from the Conference Chair**
Patrick Jansens, VP Global Gas Solutions, ABS



08:05 **Opening Remarks from Oil & Gas IQ**
Tom Stuchfield, Editor, Oil & Gas IQ

08:15 **Lessons Learned from Bunkering the Worlds First LNG Fuelled Cruise Ship**

- The challenges of setting up and managing the supply chain and the importance of collaborating with stakeholders
- Feedback on the LNG Bunkering of the AIDAnova since delivery in November 2018
- Operational experience focusing on competency, training and procedures

Stuart Carpenter, LNG Project Director, Carnival Corp & plc



08:45 **Baleària Ferries: Innovative LNG Powered Vessels for the Mediterranean**

- Baleària Ferries strategic direction and commitment to the environment: Developing an eco efficient fleet
- LNG fleet overview: Current and future projects
 - o Characteristics of the new build vessels
 - o Characteristics of the conversion projects
- Adopting unique approaches to the design, construction and engineering aspects of each vessel
- Going beyond just LNG fuel efficiency and improving sustainability through technology and digitalisation

Pablo Garcia, Fleet Project Manager, Baleària
José Poblet, Director, Cotenaval



09:15 **Developing the LNG Supply Chain in the Med for LNG Project Success**

- LNG Supply chain challenges in the Med
- Supply chain innovation and key actions to help improve supply chain performance

Javier Cervera Alonso, Head of LNG Bunkering Development, Naturgy



09:45 **Recent LNG Bunkering Developments in Europe's Largest Bunkering Port**

- Reviewing the last 12 months: How has LNG bunkering in the port progressed?
- Recent and future port activity: LNG fuelled short-haul vessels, LNG-fuelled cruise ships and planning ahead for larger deep-sea vessels
- Requirements for obtaining approvals for appropriate licensing
- Evaluating the challenges and successes of the first ship-to-ship bunkering operation

Cees Boon, Sector Coordinator Harbour Master Policy Department, Port of Rotterdam
Stefaan Adriaens, Commercial Manager, Gate Terminal
Arjan Stavast, Business Development Manager Global Marine - LNG for Transport, Shell



10:15 **Decarbonising the Maritime Transport Sector: Objectives, Targets, Timelines and Strategy**

- Where do the opportunities lie within the next 10, 20 and 30 years to ensure targets are met?
- What will the impacts be on the entire gas value chain?
- What role will LNG play in the decarbonisation of the maritime sector?
- How will technology continue to evolve in the short and long term to support these objectives?
- What operational and process improvements can be made to ensure targets are met?

Frank Hartevelde, Director Sales and Marketing, Wärtsilä Gas Systems



10:45 Morning Coffee Break

11:15 **Managing the LNG Fuel Conversion of a Large Ferry**

- Vessel type, service life and project drivers: Utilising clean technology to reduce the environmental footprint and the cost of operations
- Innovation: Becoming the world's first vessel to refuel on an open vehicle deck via delivery truck
- Additional upgrades that have reduced energy consumption and improved efficiency: Propulsion, rudders, steering and air conditioning
- ROI and Payback: Reviewing the cost and environmental benefits realised

Paul Radford, Engineering Superintendent, BCFerries



11:45 **Update from an LNG terminal provider: ssLNG hubs with marine-, road-, power- and other functionalities.**

- Distribution Functions of a Small Scale LNG Plant
- Regasification Functions of a Small Scale LNG Plant
- Combining functionalities to enhance the business case

Joris van Kreijl, Global Business Development Manager – Marine LNG Solutions, Chart Industries Inc.



12:05 **LNG Supply for Maritime Customers in Northwest Europe: Best practices for Safe and Efficient Operations:**

- Overview of the Nauticor LNG supply infrastructure in Northwest Europe
- Technical overview of the new LNG bunker supply vessel "Kairos"
- Exploring current and future LNG supply options available for different customers
- Detailed walk through of the truck to ship and the ship to ship transfer process
- Evaluating the operations and describing best practices
- Truck-to-ship case study video

Jan Schubert, Senior Manager Sales & Business Development, Nauticor



- 12:35 **LNG Bunkering Infrastructure & Operations**
- Introduction to the regulatory framework
 - Infrastructure & bunkering modes
 - LNG Bunkering layouts, compatibility & challenges
 - Quantity measurement of energy delivered
 - Methane number considerations

Panos Koutsourakis, Global Technology Leader - Sustainable Ships, Bureau Veritas

12:55 Lunch and Networking Session Proudly Hosted by 

14.05 **LNG Bunkering Spot Supplies: Safety and Procedures**

- How to prepare a spot supply
- Phases of the spot supply
- Requirements and Safety aspects
- Repsol experience in spot supplies

Eugenia Bertrand Alonso, Head of LNG Bunker Business Development, Repsol



14:35 **Brittany Ferries LNG Supply Solution Applied to the New-building Project Honfleur**

- Brittany Ferries intention to continue with LNG for all new vessels: Business case, ongoing commitment to the sector and regulatory compliance achievements
- Project Honfleur overview: Constructing a 42,400 GT dual-fuelled vessel built to an STX design
- Funding the projects including the EU funding submission
- World first: Innovation's achieved with the supply solution

Bertrand Crispils, Technical Superintendent, Brittany Ferries



15:05 **Energir's LNG Capabilities in Canada: Efficient Solutions to Meet Environmental Requirements**

- Energir's LNG plant in Montreal: Innovations occurring within existing assets
- Improving accessibility within the region: Enabling local and foreign ship owners to comply with the increasingly stringent standards
- Studies being conducted for new projects within the region

Guillaume Brossard, Director –LNG Market Development, Energir



15:35 Afternoon Coffee Break

16:05 **Overcoming the Challenges Associated with Constructing an LNG Bunker Barge**

- The steep learning process: Appreciating the unique nature of new and innovative projects
- Approaching them in the right way: Considering the unknown whilst managing regulatory, compliance and safety requirements
- Construction challenges: Managing daily problems and issues associated with cooling, practical bunkering operations and the first LNG Bunker crane
- What would we do differently?

Frans Duwaer, Director, Victrol



16:25 **Supply Chain Development and Operational Infrastructure in the Klaipeda Region**

- Quick overview of the Klaipeda region: KN's large scale LNG terminal, small scale on shore LNG Reloading station and vessels operating in the region
- Evaluating the performance of the truck loading station and bunkering facilities: Creating further opportunities for downstream LNG development
- Driving progress in the region by developing and completing the LNG supply chain

Jurgita Šilinskaite-Vensolviene, Head of LNG Services, KN



16:55 **Samuel LNG: Improving the Sustainability of Marine Traffic through the Use of LNG**

- Samuel LNG retrofitted dredger into dual fuelled engines: Project objectives and funding
- Technical ship design, performance requirements and challenges meeting the desired objectives
- Evaluating the results from the first vessel operation as well as the first bunkering operation
- LNG supplier partnership review and focus
- Conducting the environmental impact assessment and the metrics for reducing the amount of emissions: Results

Jean Pierre Guellec, CEO, GIE Dragages-Ports



17:25 **Closing Remarks from the Conference Chair and End of Conference**

Patrick Jansens, VP Global Gas Solutions, ABS



"Interesting and useful summit for understanding new and on-going LNG initiatives and for connecting people. Nice to see that the summit is becoming more international, not only focused in European area."
Antonio Illescase, Swedegas



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The **LNG Bunkering Summit** is attended by senior officials and decision-makers from industry, bringing together buyers and suppliers in one location.

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"Very nice mix of commercial and technical LNG bunkering topics"

Stefaan Adriaens, Gate Terminal

"The LNG Bunkering Summit was a success. The presenters are experts and they have credible track record in LNG bunkering. The event also provides a very good networking for me to reach LNG bunkering partners and explore potential collaborations with them"

Syafiq Bahrain, MISC Berhad

"LNG Bunkering Summit 2018 gave a perfect overview on the status of usage of LNG as a fuel and next topics in the development to come"

Jelle Paulusma, Port of Amsterdam

Who should attend?

Information sharing across the following industry sectors:

- Ship Owners/Operators/Builders/Designers
- Ports, Port Authorities & Terminals
- LNG Suppliers and Utilities
- Classification Societies
- Regulatory Bodies
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- Technology & Equipment Suppliers

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Habonim Ball Valves & Actuators for the most demanding, challenging and hazardous applications is our passion and profession for the last 70 years. We believe in designing, manufacturing and supplying control and shutoff components and solutions that improves the overall safety, integrity and sustainability of the systems they are installed in. Designed, manufactured and tested according to the highest standards, our products allow us to partner within systems that flows and control varied gases and liquids in divers markets especially where extreme temperatures and pressures are involved, hazardous materials are used and system performances are critical. We are leading in cryogenic ball valve-based control solutions, emergency shutoff and specially designed solutions.

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Shipping Finance at Societe Generale supports Industrial Shipping, LNG and Offshore sector clients across their strategic financing needs worldwide. With a primary focus on the Industrial Shipping, Offshore, and LNG sectors, we are trusted to co-ordinate many of the most complex and ambitious transactions in the shipping sector. Reflecting Societe Generale's strong commitment to supporting climate action, the Group has taken several strategic initiatives. In January 2018, Societe Generale became the first financial institution to join growing SEA/LNG coalition, working to prevent air pollution in the shipping industry. In line with the COP22 objectives, Societe Generale CIB and European Investment Bank (EIB) signed the first framework guarantee agreement to support shipbuilding projects promoting sustainable transport and environmental protection back in November 2016. With teams located in Paris, London and Hong Kong, we serve over 100 customers worldwide.



Wärtsilä is a global leader in smart technologies and complete lifecycle solutions for the marine and energy markets. By emphasising sustainable innovation, total efficiency and data analytics, Wärtsilä maximises the environmental and economic performance of the vessels and power plants of its customers. In 2017, Wärtsilä's net sales totalled EUR 4.9 billion with approximately 18,000 employees. The company has operations in over 200 locations in more than 80 countries around the world. Wärtsilä is listed on Nasdaq Helsinki. <http://www.wartsila.com>



emerson LNG is a growing industry and is a critical component of the energy discussion for the future. While the market is facing challenges in LNG measurement, Emerson has 30 years of experience in measurement in cryogenic applications worldwide and across industries. Emerson's marine solutions are developed for the harsh marine environment to ensure reliable, efficient and safe operation on board any type of ship and offshore unit. Emerson's broad marine portfolio includes a Certified LNG Fuel Bunkering Solution and Emerson is currently the only company providing an MID approved solution. Emerson not only provides a complete product portfolio to measure transferred energy, but also offers certified service, dedicated project support and lifecycle support globally to ensure smooth sailing of your vessels. <https://www.emerson.com/marineLNG>



Trelleborg's marine systems operation is a world leader in the design and manufacture of marine fenders, ship-shore links, ship performance monitoring systems, docking and mooring and navigation & piloting solutions. As the market leader in Ship-Shore Link (SSL) and Emergency Shut-Down (ESD) technology, Trelleborg has a strong track record with the Trelleborg SSL being installed in 80% of the world's LNG fleet. We are now transferring our know-how in large scale LNG applications to address the challenges of small-scale LNG transfer and fueling applications with our market-leading Universal Safety Link (USL). Suitable for both ship and shore installations, the USL allows a single operator to monitor and control bunkering, boil-off gas, tank levels and pressures, ensuring safety and efficiency. It minimizes pre-berthing preparations and allows operators to maintain safety limits, which is essential during tank spraying for cool-down and cycles between top and bottom filling in LNG tanks. Speak with the leaders in ship-shore ESD links today. <http://www.trelleborg.com/en/marine-systems>



MAN Diesel & Turbo SE, based in Augsburg, Germany, is the world's leading provider of large-bore diesel and gas engines and turbomachinery. The company employs around 15,000 staff at more than 100 international sites, primarily in Germany, Denmark, France, Switzerland, the Czech Republic, India, Sweden and China. The company's product portfolio includes two-stroke and four-stroke engines for marine and stationary applications, complete fuel gas supply systems and LNG Tanks, turbochargers and propellers as well as gas and steam turbines, compressors and chemical reactors. The range of services and supplies is rounded off by complete solutions like ship propulsion systems, engine-based power plants and turbomachinery trains for the oil & gas as well as the process industries. Customers receive worldwide after-sales services marketed under the MAN PrimeServ brand.



energir With close to \$7 billion in assets, Énergir is a major energy distributor. It is the largest natural gas distribution company in Québec, where its network of over 11,000 km of underground pipelines serves some 300 municipalities and nearly 200,000 customers. Énergir is also present in Vermont, where it has more than 310,000 customers. The company is actively involved in developing and operating innovative, promising energy projects, including natural gas as fuel, liquefied natural gas as a replacement for higher emission-producing energies, wind and solar power, and renewal natural gas. It is a major energy sector player that takes the lead in meeting the needs of its customers, regions and municipalities, local organizations, and communities while also satisfying the expectations of its partners and employees. <https://www.energir.com/>



MannTek is the world market leader in spill-free coupling technology, with more than 20 years of experience from demanding applications. We design and manufacture specialised equipment for safe and environmentally friendly handling of aggressive fluids under harsh climatic conditions, servicing demanding clients all over the world. Our dedication to constant development and improvement makes our couplings the logical choice wherever quality and safety matter. For 3 years back MannTek entered in to the cryogenic world with a further development of the proven Dry Disconnect Couplings specially designed to handle cryogenic medias and with the focus set on LNG. Today we have more than 10,000 successful LNG-operations on our track record with users worldwide in application from small scale heavy vehicle refuelling to larger sizes ship bunkering. The products are marketed through independent representatives in more than 30 countries. MannTek have many years of experience in designing, producing and marketing of DDCouplings®. <http://www.manntek.se>



Nauticor is The Linde Group's dedicated supplier of liquefied natural gas (LNG) as fuel for maritime applications, located in Hamburg, Germany. As a 100% member of The Linde Group, Nauticor has extensive experience in developing tailor-made LNG supply chains for customers and all related aspects, such as the technical design, LNG sourcing and trading and port approval processes. Since 2012, The Linde Group has conducted more than 1,500 ship-to-ship and over 3,500 truck-to-ship LNG bunker operations. While the "Seagas", which is owned and operated by The Linde Group, is the world's first LNG bunker supply vessel (BSV), Nauticor's new 7,500 m³ LNG BSV "Kairos", delivery scheduled for Q4/2018, will be the largest such vessel in the world. Utilizing these assets, Nauticor provides LNG bunker services for maritime customers all over Europe, the focus of the company's activities being on ports and offshore locations along the North Sea & Baltic Sea coast, including customers in Belgium, The Netherlands, Germany, Denmark, Sweden and Finland. <https://nauticor.de/>



Bureau Veritas is a world leader in laboratory testing, inspection and certification (TIC) services. It is the largest TIC serving the marine and offshore industries, providing classification, certification and technical services - including fuel testing.

Bureau Veritas works hand-in-hand with clients to help them optimize the safety and performance of their assets. Active across all ship types, BV also provides leading expertise in a wide variety of specialized vessels including LNG carriers, ultra large container vessels, FSRU/FSUs and expedition class cruise ships.

A key focus area for BV is supporting safety and new technology across the gas supply chain. BV is the classification market leader in new orders for LNG fueled ships and for LNG bunker vessels.

Created in 1828, the Group has around 75,000 employees in about 1,400 offices and laboratories around the world. Bureau Veritas is listed on Euronext Paris and belongs to the Next 20 index.



GTT (Gaztransport & Technigaz) is an engineering company which designs cryogenic membrane containment systems dedicated to the transport and storage of liquefied gases, in particular LNG. For over 50 years, GTT has developed technological expertise in the liquefied gas industry, building trusting relationships and lasting partnerships with the different stakeholders (shipyards, shipowners, gas companies, terminal operators and classification societies). The Company provides them with established, secure and efficient technologies for containment of liquefied gas at low temperatures. The Company is currently expanding its offer to new and promising markets, providing customised technological and engineering solutions for small and mid-scale vessels, as well as new applications for the LNG market, such as the use of LNG as a propulsion fuel. GTT develops innovative solutions to ease bunkering operations as well as to optimise the LNG volume and the space occupied, resulting in a minimum loss of cargo capacity. The Company offers highly competitive storage and handling solutions which cover the whole logistic chain, from the LNG liquefaction and export terminal in a producer country to the tank of an LNG-fuelled ship. <http://www.gtt.fr>



Sener Established in 1956 as a marine engineering company, SENER today is an international leader in Marine Engineering and Systems Developer, Civil Engineering and Architecture, Aerospace Engineering, Aeronautics and Vehicles, Actuator and Control Systems and Power and Processes, with more than 2,500 professionals and 13 offices located all over the world. The activities of our Marine Business Unit include conceptual, basic, classification, detail and production engineering, as well as consultancy, technical assistance, drawing approval and shipbuilding supervision. Offering services to shipyards, design bureaus, owners and operators concerning different types of vessels and offshore devices. All our designs are powered with FORAN, our own developed 3D CAD system for design and production. Taking advantage of the experience of its multidisciplinary professional team, the company has developed its own design of a LNG bunkering vessel that applies to the Marine sector the knowledge acquired throughout more than 40 years of activity in design, construction and operation of regasification plants. <http://www.poweroilandgas.sener/>

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Mampaey Offshore Industries, established in 1904 and still privately owned and managed by the fourth Mampaey generation, is the global market leader in the design, engineering, manufacturing and commissioning of innovative berthing, mooring and towing systems. Mampaey is able to fulfill any customer demand from the headquarters in Dordrecht, The Netherlands and sales offices in Brazil and China. Over the years the dedication to serve our customers has resulted in several maritime innovations that has driven the new standards in the towing and mooring industry. All these developments have contributed to our continuously expanding global customer base. All our products are designed and manufactured to safely withstand the toughest mechanical and environmental conditions, anywhere, day in day out. <http://mampaey.com>



AFCryo is a powerful partnership of precision engineering and technological excellence, leveraging off patented dual diaphragm pressure wave generator technology and large-scale linear pulse tubes. Twelve years of dedicated research and development has resulted in world-leading cryogenic technology. AFCryo has the PTC90, PTC330 and PTC1000 cryocooler liquefiers available for commercial applications. The benefits of the ruggedness and mechanical simplicity of the dual diaphragm pressure wave generator, integrated with the lack of moving parts of the large linear pulse tubes, combine to deliver a cryocooler ideally suited to the liquefaction and re-liquefaction of gases in industrial environments. The systems are modular so can be sized to the client's specific needs, with the added advantage of being upgradable at a later stage to a larger size. All our systems can be delivered fully self-contained, which removes the need for sourcing additional components and cooling sources. <https://af-cryo.com/>



Victrol Victrol's fleet of around 30 inland tankers and (semi sub) pontoons ships LNG, clean and black (heated) mineral liquid products, luboil, estuary container barges and heavy lift cargo. In order to build innovative vessels, Victrol regularly contracts a variety of shipyards, tank builders and other construction companies. Ensuring they expand on their unique knowledge set in order to maintain their vessel quality along with technical design. The first inland LNG carrier and bunker vessel, the latest new build will be on stream in Q1 2019. <https://www.victrol.be/> <https://www.victrol.be>



Chart Industries: your partner for marine LNG solutions Chart continues to pioneer the development of small scale LNG solutions for the production, distribution and usage of LNG. Principal technology and components are designed and built in-house and, from the earliest study phase through to commissioning and after-sales service packages, we're with you throughout the entire project lifecycle.

Some of the projects Chart has recently delivered:

- Delivered, installed and commissioned the complete cryogenic section of the LNG receiving and bunkering terminal at the port of Klaipeda with 5000m3 storage capacity and options to expand.
- Launched the new generation of LNG ISO intermodal containers incorporated into Becker's LNG PowerPac, the clean electrical energy resource for ships in port.
- Introduced Compact Vehicle Fueling Stations with innovative technology, such as Saturation on the Fly by injection, expanding Europe's NGV fueling infrastructure through new stations opened in all parts of Europe.

We look forward to meeting you in Amsterdam and discussing how, together, we can continue to develop LNG solutions according your and your client's needs.

www.ChartLNG.com LNG@Chartindustries.com <https://www.pipesystems.com/>



KC LNG is Kosan Crisplant's LNG division. We design and deliver liquefaction, bunkering and refuelling solutions - in other words, facilities for both the production and transfer of liquefied natural gas (LNG). In addition to being the cleanest fossil fuel, LNG is also highly cost-efficient. Consequently, it is a sustainable choice in many ways. For all KC LNG solutions, we have our four ground principles in mind: zero-emission, scalability, automation and mobility. Together, they form the target we are always aiming at. Besides turnkey LNG installations, we also assist our customers with service offers, after-sales packages, consultancy and facility management. No matter what kind of solution or service we provide, we make sure to tailor the product exactly to our customer's needs. That gives the best result for the both of us.



ARTA, an independent and privately owned company in Diez, near Frankfurt, Germany, has been specialized in the development and engineering of technically sophisticated transfer systems for more than 50 years. ARTA's footprint in the LNG transfer exists from 2005 with more than 1,000 running applications globally. Today, the company is one of the world market leaders in Transfer technology with service and sales branches worldwide. All engineering and manufacturing is based in Germany using the latest CAD/CAM software as well as 5/6 axis CNC-controlled lathes and milling machines. The ARTA engineering team supports customers in fluid mechanics, material strength calculations, analysis, measurement technology and normative evaluation. Development, engineering, on-site turnkey installation, site acceptance tests with the customer and after-sales service are without exception executed by experienced ARTA staff. The company has established several quality certifications according to DIN ISO 9001, and HPO (High Performance Organization) with the four dimensions **Customer Focus, Process Excellence, Ability to Execute, People Excellence**. Based on all this, customers can completely trust and rely on the competence and the process excellence, as well as on the components and systems delivered by ARTA. They achieve full protection for operators, equipment and the environment. The company is a preferred system supplier for the industry with more than 2000 customers worldwide. <https://www.arta.com>



ABS has gained a reputation for pioneering technical work that has supported innovation in gas transport. For more than 50 years, we have classed LPG and LNG carriers - including the first conversion of a cargo vessel to carry LPG, the first purpose-built LNG carrier and the first Very Large Ethane Carrier (VLEC). ABS classes one-quarter of the existing LNG carrier fleet and has the largest orderbook, with more than 30 percent of newbuild LNG vessels slated for ABS class. The ABS Global Gas Solutions team provides industry leadership, offering guidance in LNG floating structures and systems, gas fuel systems and equipment, gas carriers and regulatory and statutory requirements.

ABS provides industry-leading classification, preliminary planning and advice as well as approval in principle (AIP) services for the next generation of floating LNG assets that will enable new approaches to the worldwide transport of natural gas <https://ww2.eagle.org/en.html>



Naturgy Naturgy is a multinational company currently present in more than 30 countries, where it serves almost 18 million customers, with 15.45 GW installed power and a diversified electricity generation mix. The company's core business lies in the regulated and liberalized gas and electricity markets, with a growing contribution from its overseas activity. The company is quoted on the four Spanish stock exchanges through continuous trading and is part of the Ibex35 index. The main areas in which it operates are: supply and transportation of gas, distribution, electricity generation, marketing, and trading. Its Strategic Vision is aimed at protecting the current business model and establishing the foundations for continued growth. Naturgy has taken three main trends in the energy sector into account in order to define it: growth driven by emerging markets, the changing mix of power generation towards renewables and natural gas, and the appearance of new business models in the energy sector. Naturgy is a leader in the commercialization of gas in the Iberian Peninsula and one of the main liquefied natural gas (LNG) operators in the world, supplying LNG not only to Spain but also to customers around the world. It has been a world leader in LNG since 1969, operates throughout the gas value chain with a supply portfolio of 30bcm in the Atlantic and Mediterranean basins, and has a fleet of nine LNG tankers. As an expert in LNG, Naturgy develops LNG infrastructure at ports by offering customized solutions to shipping companies and is playing a crucial role in the Mediterranean bunkering market. <https://www.naturgy.com>



Rolls Royce Rolls-Royce has a world leading range of capabilities in the marine market, encompassing vessel design, the integration of complex systems and the supply and support of power and propulsion equipment. We are leaders in mission-critical systems for offshore oil and gas rigs, offshore, merchant and naval vessels. Today the Rolls-Royce marine product range is one of the broadest in the world. 70 of the world's maritime forces and over 30,000 commercial vessels use our equipment. Our global support network underpins all activities and continues to expand with 50 centres in 28 countries with more planned.



Houlder In all the marine markets Houlder works in, our customers want the same things - trusted partners, dependable technical support and innovative solutions. Houlder delivers all three to the LNG sector whether the requirement is for the design of new vessels, safe transfer and bunkering equipment or consultancy and advisory services. We do this globally for clients at the forefront of innovation in this rapidly growing market. Houlder's small to mid-scale transfer and bunkering equipment innovatively employs proven, safe and reliable components to improve operational envelopes. Our bunkering and regasification barge and vessel designs are based on an in-depth understanding of LNG operations and requirements. The company is an employee owned SME operating from London, Aberdeen, Portsmouth and Tyneside. Clients include Shell, BP Exploration, Siem and Caledonian MacBrayne, for whom Houlder designed the UK's first dual fuel LNG ferry <https://www.houlderltd.com/>



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