Tuesday 2 April 2019

15:00 - 17:30

Commercial Session

LNG Market Growth and Industry Sustainability

The symbiosis between buyer and seller is critical in sustaining industry growth. This commercially focused session will combine formal paper presentations and a panel discussion to explore the following areas:

• LNG demand growth drivers
• Finding equilibrium between fair pricing and sustaining investment for future supply
• Challenges and opportunities in meeting future demand and infrastructure requirements

Session Chairs

• Don Hill, Global Vice President, LNG, McDermott
• Adly Alias, Vice President, LNG Marketing and Trading, PETRONAS

Speakers and Paper Topics

• Abhishek Rohatgi, Lead Analyst, South and Southeast Asia LNG Demand, Bloomberg New Energy Finance - “Can India Deliver on its Promise of LNG Demand Growth?”
• Geoffroy Hureau, Secretary General, Cedigaz – “European Gas and LNG Demand: The Time Is Now!”
• FENG Chenyue, Economist, CNPC Economics & Technology Research Institute - “LNG Plays a More Crucial Role in China’s Gas Supply: LNG Import Outlook and Strategies”
• Eric Zhu, Oil & Gas Market Segment Leader, Ernst & Young China - “Navigating the New Order in LNG Markets”
• Hiroshi Hashimoto, Senior Analyst, Gas Group, Institute Of Energy Economics, Japan – IEEJ - “Japan’s Gas and Electricity Market Reform: The Third Revolution”
• Jefferson Edwards, General Manager, Global Gas Policy and Regulatory Affairs, Shell - “LNG: Powering Progress in and Evolving Industry”

Panellists

• XU Tong, Vice President, Beijing Gas
• Laurent Vivier, President Gas, TOTAL
• Andrew Seck, VP, LNG Marketing & Shipping, Anadarko
• Yul Ryu, President, Corporate Strategy & Services, S-Oil Corporation
Drivers for Demand Creation Across the World

In recent years the number of importing countries has increased, joining the club of traditional importers across Asia, Europe and North America. Why do new importers rely on LNG as a source of energy supply? Motivations include the need to replace imported oil and coal, to supplement declining domestic gas production, to meet increased needs of energy supply, security of supply, diversification of supply and cover demand peaks.

This paper session looks at the factors working together to drive the creation of demand.

Session Chairs

- Francisco de la Flor, Director, Enagás S.A.
- Ryosuke Tsugaru, Chief Executive, Diamond Gas International

Speakers and Paper Topics

- Jeffrey Moore, Manager, Asian Lng Analytics, S&P Global Platts – “How The IMO 2020 Regulation Will Impact the LNG Market”
- David Jetter, Partner, Baker Botts – “FSRUs: Facilitating New LNG Demand”
- Nicholas Browne, Director, Asia Gas and LNG, Wood Mackenzie – “Drivers and Challenges to Growth of LNG-Fuelled Power in Emerging LNG Markets”
- YUAN Yuan, Team Lead LNG Downstream Bd, Shell – “China - The “Move” to LNG - Examining the Primary Drivers for Uptake of LNG as a Transport Fuel in China”
- CAO Zhenning, Deputy Manager, Shanghai LNG Company Ltd – “Shanghai's Natural Gas Market and the Role of LNG: Status and Prospects”
- Birthe van Vliet, Business Intelligence Manager, Shell Energy – “Special Presentation of the IGU 2019 World LNG Report”
10:00 - 12:30

Technical Session

Digital & Sustainable Future

Digital and sustainable developments in technology and response(s) to changing community attitudes will be explored in this paper session, along with discussions on alternative production and uses of LNG in a low carbon world and how intelligent and automated systems are changing the design and operations of production plants and all elements of the LNG supply chain.

Session Chairs

- **Heinz Bauer**, Vice President Technology Natural Gas Plants, Linde AG
- **Boris Ertl**, Advisor; LNG & Gas Monetisation, BP
- **Brian Haggerty**, Vice President Innovation Capability, Woodside

Speakers and Paper Topics

- **Julian Terpitz**, Business Development Manager, TGE Gas Engineering GmbH – “LNG for Aircrafts”
- **Tom Lukatela**, Development Lead - Power Opportunities, Woodside – “Gas and Renewables: Partners in Powering Industry”
- **Erik Langeteig**, Director of Project Solutions, Chart Industries – “Thinking Innovatively And Collaboratively to Provide Complete LNG Fueling Solutions for Road, Maritime and Rail”
- **Janani K Mittal**, Programme Manager, LNG Technology, Shell – “Embracing the Benefits of Digitalisation in LNG Projects”
- **Shawn Fernando**, Head of Robotics, Woodside Energy – “Smart Facilities - The Integration of Artificial Intelligence, Analytics, Intelligent Sensors and Robotics to Improve Insights, Reduce Costs, Increase Production and Improve Safety”
- **Takehito Yasui**, Deputy General Manager, AI Solution Department, Chiyoda Corporation – “Making a Smart Plant with AI Technology”
Thursday 4 April 2019

10:00 - 12:30

Technical Session

Shipping & Floating LNG

This session deals with the extremely important aspect of the LNG value chain related to shipping; the main reason that natural gas is liquefied and is able to be traded internationally. This paper session also studies the increasing activity regarding floating LNG, across both regasification and liquefaction.

Session Chairs

- Andrew Clifton, General Manager, SIGTTO
- Carlos Guerrero, Global Market Leader, Tankers & Gas Carriers, Bureau Veritas Marine & Offshore

Speakers and Paper Topics

- Heinz Bauer, Vice President Technology Natural Gas Plants, Linde AG – “High Capacity FLNG Gas Expander Process”
- Serena Su, Manager, Commercial Structuring, Cheniere Energy – “A Perspective on the Transit of LNG Through the Panama Canal”
- Frédéric Hannon, LNG Shipping Projects Manager, Total S.A. – “Shipping LNG From a Remote Arctic LNG Plant”
- Eric Morilhat, Technical Director, TechnipFMC / FMCTechnologies SAS – “FLNG Offloading For Real – Verdict from the Field”
- Dominique Gadelle, Vice-President, Gas Monetization, TechnipFMC – “Offshore LNG - Revisiting the Concept”
- Arjan Maijenburg, Engineering Manager Regas, Shell Projects and Technology – “Going Jettyless Opens New Markets”
- Carlos Guerrero, Global Market Leader, Tankers & Gas Carriers, Bureau Veritas Marine & Offshore – “Assessment of Innovative Small-Scale LNG Carrier Concepts”
10:00 - 12:30
Commercial Session

**Linking the Value Chain for Financeability**

The papers in this session explore the below issues from different perspectives, across regions and throughout the value chain including downstream deregulation, access, shipping and upstream uncertainties:

- International integrated gas projects such as LNG remain capital intensive and, in most cases, need to tap into the finance market
- Upstream projects face ongoing challenges including resource uncertainty, completion, technology and sovereign risk
- As downstream markets become more fragmented, deregulated and potentially less credit worthy, how (and who) will bring the value chain together?

**Session Chairs**

- **Roger Bounds**, Vice President Strategy & Portfolio – Integrated Gas, Shell
- **Steven Miles**, Head of LNG Practice, Baker Botts L.L.P

**Headline Speakers**

- **WANG Zhenyong**, Deputy CEO, ICBC Leasing
- **Andy Calitz**, CEO, LNG Canada

**Speakers and Paper Topics**

- **Andy Brogan**, Partner, Ernst & Young – “LNG Shipping, Storage and Transportation - Supply Chain and Infrastructure Issues are Limiting LNG Market Expansion”
- **Amokeye Adede**, LNG Consultant, Poten & Partners – “F Evolution of Flexibility / Liquidity in the LNG Shipping Market”
15:15 - 17:45

Commercial Session

**LNG Infrastructure Projects: Cases & Trends**

At a time when a new wave of LNG projects is eagerly expected by the industry, in response to a tightening of the LNG market in the early 2020’s, this session examines some of the challenges faced and key success factors of the most recent projects. A special focus will be given to specific projects (“case studies”), including “new frontier” projects such as the Yamal and BC LNG export project, addressing both their commercial and technical key features.

The session will also draw attention to major developments affecting the Chinese LNG market in terms of regulation, infrastructure and market trends and interfacing with the global LNG market.

**Session Chairs**

- Eric Ebelin, Senior Vice President, Business Development, *Total*
- Juan Cuesta, Vice President, Americas, Turbomachinery & Process Solutions, *Baker Hughes, a GE Company*

**Speakers and Paper Topics**

- **Tom Zeal**, Natural Gas and LNG Consultant, *Merlin Advisors* – “Are LNG Liquefaction Projects Taking Longer to Construct?”
- **Christopher Ott**, Lead Process Engineer, *Air Products And Chemicals, Inc.* – “Yamal LNG: Meeting the Challenges of Natural Gas Liquefaction in the Arctic”
15:15 - 17:45

Technical Session

**New Technical Applications in Asia Pacific**

Asia Pacific is a dynamic region within the LNG industry. Innovations are continually being developed, leading to world firsts on a broad spectrum of technical applications. This session will address current focus points including new LNG carriers, LNG as a fuel for ships and road, small scale LNG on a river, process optimization and life extension or conversion of LNG plants across various regions of Asia Pacific.

**Session Chairs**

- Olivier Denoux, Chief Technical Officer, *Elengy*
- Toshiya Momose, Co-CDO, Deputy Division Director of Corporate Planning, *Chiyoda Corporation*

**Speakers and Paper Topics**

- **Mark Weatherwax**, Consulting Machinery Engineer, *Chevron* – “Operational Experience with Lm6000-Pf Aero Derivative Gas Turbine in Mechanical Drive Service at Wheatstone LNG”
- **Tania Simonetti**, Principal Engineer, *TechnipFMC* – “Mid-Size LNG Design Considerations for Robust and Flexible Operation: Yangling LNG Plant as a Case Study”
- **Adnan Ezzarhouni**, General Manager, *GTT China* – “World’s First Low Bor LNG Carrier Built In China Using Gtt No96 L03+, for Yamal LNG”
- **Martial Claudepierre**, Regional General Manager Sustainable Shipping, *Bureau Veritas* – “World’s Largest LNG Fuel Supply Chain for World’s Largest Box Ship”
- **Capt. SHU Binglin**, General Manager, *China LNG Shipping (International) Co., Ltd.* – “Future Challenges for LNG Shipping in China”
Commercial Session

Commercial Evolution and the Changing Industry Dynamic

This session, formed of paper presentations, examine the following questions:

• How will the industry evolve commercially in coming decades?
• How will liquidity, price formation and trade dynamics change?
• What influence will seasonality, regulation, growing flexibility and short-term trades have?
• How will Buyers with large and diverse portfolios impact LNG trade?
• Will we see the formation of Asian LNG hubs and is gas the right bet for the oil-majors?

Session Chairs

• Andrew Walker, Vice President Strategy and Communication, Cheniere Energy
• Ieda Gomes, Senior Adviser, FGV Energia

Speakers and Paper Topics

• Chris Goncalves, Chair & Managing Director, BRG Energy, Berkeley Research Group – “Unlocking LNG Competitiveness and Liquidity Through Commercial Change and Flexibility”
• Ming Cai, LNG Consultant, Poten & Partners – “How Short-Term LNG Market Evolution Will Influence the Market Dynamics”
• Pat Breen, CEO, Gas Strategies – “Development of Asian LNG Trading Hubs – Spokes in the Wheel”
• Andrea Qualiano, Head of Mid-Long Term Outlook, Edison Spa – “Seasonality: Enabling Factor for LNG in EU?”
• Chris Rumley, Senior Consultant, LNG & Natural Gas, Poten & Partners – “The Demise of Joint Marketing and Rise of Equity LNG”
09:45 - 11:45

Technical Session

New Designs and Technology for Projects

The presentations in this session will look at methods to improve project economics by optimizing train size, including flexibility in the design and leveraging LNG for extraction or transportation of associated products, and improving process efficiency through data analytics and the application of new process technologies.

Session Chairs

- Dominique Gadelle, Vice-President, Gas Monetization, TechnipFMC
- Bruce Barnes, LNG Technology Manager, Bechtel Oil, Gas, & Chemicals

Speakers and Paper Topics

- Christopher Caswell, Director, LNG Technology and Development, KBR – “Does (Train) Size Really Matter?”
- Rajeev Nanda, Vice President, Project Development, TechnipFMC – “Ethane Transportation with LNG - An Option for Balancing the Global Supply & Demand of Ethane”
- Tobias Eckardt, Global Technology Manager, Natural Gas, BASF Catalysts Germany GmbH – “Innovation in Materials Development for LNG Dehydration”
- Raghuraman Pitchumani, Senior Process Engineer Tools & GHG, Shell Global Solutions Intl. B.V. – “Real Time Production Optimization of Mixed Refrigerant (MR) Loop By Data Analytics”
- Walter Nelson, VP & GM, Global Helium and Rare Gases, Air Products – “A Fresh Look At Helium Recovery from LNG”