

# **FOURTH SYMPOSIUM** on **GAS AND COAL MARKET OUTLOOKS**

Tuesday 6 November 2018  
Paris, France

**AGENDA** and  
**PROGRAMME**

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French Ministry of Foreign Affairs | Ministerial Conference Centre (CCM), 27 rue de la Convention, 75015 PARIS, France

Structural changes in the dynamics of energy supply and demand across regions and economic sectors are determining the future of coal and gas in the medium term. Continued economic expansion, centred in developing Asia, will increase the demand for energy, particularly natural gas. However, strong renewables growth is having a significant impact on gas and coal demand in the power sector worldwide. Over the medium term, natural gas demand is expected to grow moderately, while coal demand is in the midst of a decade of stagnation.

Both gas and coal will require investments to replace declining production from existing assets and, in the case of natural gas, to meet growing needs. For natural gas, investment continues apace, particularly for LNG, where substantial new liquefaction capacity is coming into service. By contrast, despite higher prices over the past two years, progress in coal project development is very slow.

Robust growth in LNG supply, particularly from the United States and Australia in recent years, has upset long-standing practices in LNG trading. With this extra capacity and the more flexible terms by new players, LNG supply is diversifying globally with major suppliers influencing each other and providing more liquidity in LNG trading. Those extra supplies of flexible LNG have been absorbed by growing Asian demand, mainly from China, driven by a requirement for less-polluting fuels for residential and industry sectors. Further sustained demand growth of natural gas will be driven by emerging South Asian countries, where strong economic growth surpasses domestic gas production and thus creating new demand for globally traded LNG.

In the longer term, demand for coal and for natural gas will be affected by the implementation of measures to meet the climate change mitigation targets set under the Paris Agreement. Coal consumption in many developed economies is expected to decline as more countries implement policies to limit the use of coal for power generation. Continued strong growth in renewables will limit the market for electricity from coal or gas. Carbon capture utilisation and storage is one of the critical solutions needed to decarbonise energy systems, but is lagging behind other low-carbon energy technologies.

This Symposium will focus on the main developments and trends in gas and coal markets and will discuss the evolving dynamics between these two fuels and with renewables. In the first two sessions, gas and coal market outlooks will be discussed. The final session will focus on competition between the two fuels in the power sector, where the landscape is changing rapidly due to the growth of renewables.

The Symposium on Gas and Coal Markets Outlooks is jointly organised by the International Energy Agency (IEA), the International Energy Forum (IEF) and the Organization of the Petroleum Exporting Countries (OPEC) in response to a call from the G20 leaders' Summit (Cannes, 2011) for continued annual dialogue between producers and consumers on short-, medium- and long-term outlooks and forecasts for oil, gas and coal. It also builds on related work undertaken by the IEF since the 12th IEF International Energy Forum Ministerial (Cancun, 2010).

The Fourth Symposium, which will be held under [Chatham House Rule](#), is structured to encourage participation of all attendees after each set of presentations. As shown in the attached agenda, it is organised into three sessions covering natural gas markets, coal markets and the competition between the two fuels. Presentations will be short – 10 minutes in most cases – in order to leave time for discussion and participation from the audience. Along with the agenda, please find attached a series of questions which will assist all participants in framing the discussion.

08:30 – 09:30	Registration and Morning Coffee
09:30 – 10:00	<b>WELCOME AND OPENING REMARKS</b>
	♦ <b>Keisuke SADAMORI</b> • Director, Directorate of Energy Markets and Security, <b>IEA</b>
	♦ <b>Sun XIANSHENG</b> • Secretary General, <b>IEF</b>
	♦ <b>Abderrezak BENYUCEF</b> • Head, Energy Studies Department, <b>OPEC</b>
<b>SESSION 1</b>	<b>GAS MARKET DEVELOPMENT IN THE SHORT, MEDIUM AND LONG TERM</b>
	Moderator: <b>Abderrezak BENYUCEF</b> • Head, Energy Studies Department, <b>OPEC</b>
10:05 – 10:15	♦ <i><b>The Natural Gas Market Outlook</b></i> <b>Jean-Baptiste DUBREUIL</b> • Senior Natural Gas Analyst, <b>IEA</b>
10:15 – 10:30	♦ <i><b>The Energy Demand Outlook</b></i> <b>Abderrezak BENYUCEF</b> • Head, Energy Studies Department, <b>OPEC</b>
10:30 – 10:45	♦ <i><b>A Perspective from Industry Organisations</b></i> <b>Menelaos YDREOS</b> • Executive Director, Public Relations, <b>International Gas Union (IGU)</b>
10:45 – 10:55	♦ <i><b>Global Gas Outlook by GECF</b></i> <b>Dmitry SOKOLOV</b> • Head, Energy Economics and Forecasting Dept., <b>Gas Exporting Countries Forum (GECF)</b>
10:55 – 11:30	Q&As, Roundtable Discussions
11:30 – 12:00	Refreshments Break
12:00 – 12:10	♦ <i><b>Gas Infrastructure Opportunities and Constraints</b></i> <b>Xavier ROUSSEAU</b> • Head of Corporate Strategy, <b>Snam S.p.A.</b>
12:10 – 12:20	♦ <i><b>Industry Perspectives on Unlocking Investment for Growing Demand</b></i> <b>Roger BOUNDS</b> • VP Strategy and Portfolio, Integrated Gas, <b>Shell International</b>
12:20 – 12:30	♦ <i><b>Update on US Shale Gas and LNG Exports: Implications Across Regions</b></i> <b>Andrew WALKER</b> • Vice President, Strategy, <b>Cheniere Energy</b>
12:30 – 13:00	Q&As, Roundtable Discussions
13:00 – 14:00	Buffet Lunch
<b>SESSION 2</b>	<b>COAL MARKET DEVELOPMENT IN THE SHORT, MEDIUM AND LONG TERM</b>
	Moderator: <b>Sun XIANSHENG</b> • Secretary General, <b>IEF</b>
14:10 – 14:20	♦ <i><b>The Coal Market Outlook</b></i> <b>Carlos FERNÁNDEZ ALVAREZ</b> • Senior Coal Analyst, <b>IEA</b>
14:20 – 14:30	♦ <i><b>Deep Dive: Supply Outlook of Key Exporting Countries and their Impact on Global Coal Markets</b></i> <b>Yahdian FALAH</b> • Senior Manager, Coal Market Analysis, <b>EnBW AG</b>
14:30 – 14:40	♦ <i><b>Deep Dive: The Coal Financial Market Reinvents Itself</b></i> <b>Guillaume PERRET</b> • Founder and Director, <b>Perret Associates</b>
14:40 – 15:20	Q&As, Roundtable Discussions
15:20 – 15:50	Refreshments Break
<b>SESSION 3</b>	<b>GAS AND COAL COMPETITION FROM A LONG-TERM SUSTAINABILITY PERSPECTIVE</b>
	Moderator: <b>Peter FRASER</b> • Head of the Gas, Coal & Power Markets Division, <b>IEA</b>
16:00 – 16:10	♦ <i><b>Gas and Coal Competition: Insights from the World Energy Outlook</b></i> <b>Laura COZZI</b> • Chief Energy Modeller, Energy Demand Outlook Division, <b>IEA</b>
16:10 – 16:20	♦ <i><b>Natural Gas and Coal Supply Chains: Moving Towards Sustainability</b></i> <b>Sun XIANSHENG</b> • Secretary General, <b>IEF</b>
16:20 – 16:30	♦ <i><b>An Update on Carbon Capture Use and Storage and Clean Coal Technologies</b></i> <b>Gianluca DIFEDERICO</b> • Senior Commercial Manager, <b>BHGE - a GE Company</b>
16:30 – 16:40	♦ <i><b>Impact of China's Energy Transition on the Global LNG Market</b></i> <b>Yao LI</b> , Chief Executive Officer • <b>SIA Energy</b>
16:40 – 17:10	Q&As, Roundtable Discussions
17:10 – 17:30	<b>CLOSING REMARKS: OPEC, the IEF and the IEA</b>
17:40 – 19:00	Closing Reception



## DISCUSSION QUESTIONS

### Session 1: Gas Market Developments in the Short, Medium and Long Term

- How is gas demand developing? How are gas markets enabling economic growth?
- What is the status of new natural gas and LNG projects, which markets will they serve?
- How will policymakers and industry unlock addressing the need to continue expanding infrastructure and how are they financially challenge natural gas and LNG?
- To what extent are well-supplied markets accelerating changes towards more flexible and liquid market?

### Session 2: Coal Market Developments in the Short, Medium and Long Term

- How is coal demand developing? How does the coal industry enable inclusive and sustainable growth?
- How are new market conditions, policies, carbon prices and regulations shaping coal movements?
- What is the impact of energy-policy shifts in Asian growing economies and US unconventional gas production and exports on international coal markets?
- How will supply side of reform in China and India impact the market?

### Session 3: Gas and Coal Competition from a Long-Term Sustainability Perspective

- What are the driving factors for competition between gas and coal and how do these vary among regions?
- What is the role of coal- and gas- fired power generations in providing flexibility to the electricity systems to integrate more variable renewable generation sources?
- How is gas/coal competition in power generation affected by governments' economic, energy and environmental policies?
- Can clean coal technologies such as carbon capture and storage and high-efficiency, low-emission (HELE) power plant enhance the role of the industry?
- What are the prospects for carbon pricing and how will this affect relative competitiveness of gas and coal for power generation and in other economic sectors?
- How will policies supporting renewables and deployment of clean energy technologies affect coal and gas markets and investment overtime?