



THE SECOND

IEA-IEF-OPEC SYMPOSIUM ON GAS AND COAL MARKET OUTLOOKS

Thursday, 30 October 2014

International Energy Agency

9 rue de la Fédération, 75015

Paris, France

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The Second Symposium on Gas and Coal Markets Outlook 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 the call from G20 Leaders at the Cannes Summit (November 2011).

The Symposium will focus on the interactions and new dynamics between gas and coal. In the first two sessions the outlooks for the gas and coal markets will be discussed. Session three will focus on the competition between these two fuels in the power market in European, North American and Asian markets and how competition between these two fuels in power generation is affected by governments' economic, energy and environmental policies.

1 Session: Gas market developments in short-, medium- and long-term outlook, including demand, supply, transport, and the LNG market, and will address the following points:

- What are the most recent developments in the US natural gas market and what impact could these have on other regional markets?
- How is the economic recovery and energy policy in Europe impacting the gas market of this continent?
- Are the physical infrastructure and market structure in Asian countries developing rapidly enough to meet the growing demand for natural gas?
- What is the status of new natural gas and LNG projects and which market is the likely destination?
- How are policymakers, markets, and industry addressing the infrastructure and financing challenges for natural gas and LNG?
- How are new market conditions, policies, pricing and regulations shaping natural gas movements and marketing instruments?
- What are the prospects of the use of gas as industrial feedstock?
- What is the potential for natural gas and LNG as a transportation fuel?

2 Session: Coal market developments in short-, medium and long-term outlooks, including demand, supply, and emerging production/consumption/marketing patterns:

- Is the growing role of the US as a global supplier of coal likely to persist? What impact might this have?
- What are the drivers influencing coal supply/demand in Europe and how might its position as the largest coal importer evolve?
- What are the prospects for new upstream coal investment at current market prices?
- How will the costs of mining evolve in different parts of the world?
- What impact will environmental policies have on coal supply and demand?
- What will be the impact of Chinese domestic coal production on international coal markets?
- How are new market conditions, policies, pricing, and regulations shaping coal movements and marketing instruments?

3 Session: Gas and coal competition in the power market from a long term sustainability perspective:

- What are the driving factors for competition between gas and coal in power generation globally, and how do these vary among the regions?
- How is gas/coal competition in power generation affected by governments' economic, energy and environmental policies?
- What will be the consequence of prolonged low gas prices in the US for the share of coal and gas in power generation, both in the US and globally?
- What are the prospects for carbon pricing and how will this impact relative competitiveness of gas and coal for power generation? What are the impacts in terms of climate change mitigation?
- How do the investment profiles differ between gas and coal power generation?
- What are the current and emerging technological developments that could impact gas/coal competition in the power market?
- How will policies favouring renewables affect coal and gas markets and their competition?

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- 8:30 to 9:00 **Registration and coffee**
- 9:00 to 9:10 **Welcome and opening remarks**
Chair: Keisuke Sadamori, Director, Energy Markets and Security, **IEA**
- **Maria van der Hoeven**, Executive Director, **IEA**
 - **Aldo Flores Quiroga**, Secretary General, **IEF**
 - **Omar S. Abdul-Hamid**, Director, Research Division, **OPEC**

SESSION 1 GAS MARKET DEVELOPMENTS IN THE SHORT, MEDIUM AND LONG TERM

Moderator: **David Montgomery**, Senior Vice President, **NERA**

- 9:10 to 9:30 • *From a tight to a comfortable gas market?*, **Tim Gould**, Head, Resources and Investment, **IEA**
- 9:30 to 9:50 • *Natural gas: outlook and changing trends*, **Nadir Guerer**, Senior Research Analyst, **OPEC**
- 9:50 to 10:05 • *Insights into dialogue and data in gas markets*, **Zack Henry**, Director, Energy Dialogue, **IEF**
- 10:05 to 10:20 • *Natural Gas Market Development and Trends*, **Radia Sedaoui**, Head, Statistics and Gas Modelling, **GECF**

Regional developments

- 10:20 to 10:35 • *North American developments and trends*, **Jérôme Ferrier**, President, **International Gas Union**

Coffee break (25 minutes)

- 11:00 to 11:15 • *Asian developments and trends*, **Bob (Hiroyuki) Takai** President & CEO, **Sumitomo Corporation Global Research**
- 11:15 to 11:30 • *European developments and trends*, **Robert Oushoorn**, **PWC Partner/Global Leader, Gas Practice & Strategy**

Developments in industry

- 11:30 to 11:45 • *New trends in the use of gas by the power, industrial and transportation sectors*, **Markus Becker**, Global Leader, Government Affairs and Policy, **GE Oil & Gas**

- 11:45 to 12:30 **Roundtable discussion**

- 12:30 to 13:45 **Lunch**

SESSION 2 COAL MARKET DEVELOPMENTS IN SHORT, MEDIUM AND LONG TERM OUTLOOKS

Moderator: **Taher Najah**, Downstream Oil Industry Analyst, **OPEC**

- 13:45 to 14:00 • *Coal demand trends in OECD countries*, **Carlos Fernández Alvarez**, Senior Coal Expert, **IEA**
- 14:00 to 14:15 • *Perspectives for coal in Europe*, **Mark Oliver Bettzüge**, Director, Institute of Energy Economics, **University of Cologne**
- 14:15 to 14:30 • *Trade patterns in the coal market*, **Eoghan Cunningham**, CEO, **Global Coal**

Developments in industry

- 14:30 to 14:50 • *New trends of the coal industry, perspectives on China*, **Mark C. Thurber**, Associate Director, Program on Energy and Sustainable Development, **Stanford University**

- 14:50 to 15:30 **Roundtable discussion**

- 15:30 to 15:45 **Coffee break** (15 minutes)

SESSION 3 GAS AND COAL COMPETITION IN THE POWER MARKET FROM A LONG TERM SUSTAINABILITY PERSPECTIVE

Moderator: **Aldo Flores Quiroga**, Secretary General, **IEF**

- 15:45 to 16:00 • *Overview of trends and policies*, **Peter Ramsay**, Managing Editor, Generation Fuels, **Argus**
- 16:00 to 16:15 • *European developments and trends*, **Hans ten Berge**, Secretary General, **Eurelectric**
- 16:15 to 16:30 • *Asian developments and trends*, **Tatiana Mitrova**, Head, Oil and Gas Department, **Energy Research Institute, Russian Academy of Sciences**

Developments in industry

- 16:30 to 16:45 • *Gas and coal substitution. Technology and economic drivers*, **Peter Adam**, Head, Project Development, Oil and Gas, **Siemens**

- 16:45 to 17:15 **Roundtable discussion**

- 17:15 to 17:30 **Conclusions**
- **Keisuke Sadamori**, Director, Energy Markets and Security, **IEA**
 - **Zack Henry**, Director, Energy Dialogue, **IEF**
 - **Omar S. Abdul-Hamid**, Director, Research Division, **OPEC**