

Committee Session SG 1.1

Thursday 4 June 2015, 17:00-18:30

Technological advances in gas exploration and production

Chaired by Adif Zulkifli (Petronas)

Objectives:

The potential for the production of conventional and unconventional gas is extensive in many parts of the world, but price volatility and narrow margins are pushing companies to balance their investment portfolios. This session will debate on the technologies that could be a game changer for upstream business by improving production costs, efficiency and productivity.

Topics of interest include:

- Advances in seismic acquisition and imaging;
- Progress in drilling technology and hydraulic stimulation;
- Smart completions;
- Case studies on the use of technology to improve economic performance and energy efficiency;
- Improvements in gas processing;
- Technological advances in gas to LNG, gas to power and gas to chemicals.

Session form:

- Presentations performed by committee members, invited guests and selected from the call for papers.

Keywords:

Seismic, imaging technology, hydraulic stimulation, well productivity, geological survey, drilling technology, gas processing, FLNG, FGTL, subsea systems, smart completion.

Committee Session SG 1.2

Wednesday 3 June 2015, 8:30-10:00

Natural gas available everywhere? An assessment of global resources and reserves

Chaired by Denis Krambeck Dinelli (Petrobras) and Fernando Jorge Bado (Tenaris)

Objectives:

In the middle of the so called unconventional gas revolution, one of the most important challenges is the development of reliable estimates for both conventional and unconventional gas reserves and resources. This session aims to provide an updated global assessment for them, including the most important trends, uncertainties, opportunities and threats to the upstream segment of the gas industry.

Topics of interest include:

- Assessment of conventional and unconventional gas reserves and resources;
- Conditions for the successful development of unconventional resources;
- Exploratory hotspots and new frontiers for natural gas;
- Gas flaring reduction as a means to enhance the supply of gas.

Session form: Presentation and discussion of the triennial report, performed by the members of SG 1.2, complemented by invited guests and authors selected from the call for papers.

Keywords: Gas reserves, gas resources, unconventional gas, North American gas, shale and tight gas developments, new exploratory frontiers, gas flaring.

Committee Session SG 1.3

Wednesday 3 June 2015, 17:00-18:30

Fiscal regimes for the production of conventional and unconventional gas

Chaired by Daniel Johnston (Consultant) and Marcos de Freitas Sugaya (Petrobras)

Objectives:

Gas projects have different characteristics when compared with their oil counterparts, so a distinctive treatment is required from regulators, government authorities and stakeholders.

Topics of interest include

- Regulations, business models and fiscal incentives for the production of conventional and unconventional gas;
- Reasons and causes for the unconventional gas revolution;
- Incentives for the production of gas at remote locations or challenging conditions;
- Fiscal regimes to sustain the production of gas in marginal, mature or tail end fields;
- Gas rent and production sharing.

Session form:

Presentation and discussion of case studies performed by invited speakers, committee members and authors selected from the call for papers.

Keywords:

Unconventional gas, upstream regulations, upstream taxation, fiscal systems, North America, gas rent, mineral property rights, gas producing countries, gas production costs, tail gas, marginal fields, mature fields, fiscal regimes, upstream taxation, tax allowances, upstream regulations.

Expert forum SG 1.1

Friday 5 June 2015, 8:30-10:00

Technologies for the monetization of gas reserves

Chaired by Rashida Karim (Petronas)

Objectives:

This session will debate on the use of advanced technological options to monetize stranded gas reserves, including the production of gas at challenging conditions or difficult locations, and the use of technology transfer as a means to anticipate results and reduce costs.

Topics of interest include:

- Technologies to reduce capital expenditure and increase well productivity;
- Technologies for the production of unconventional gas;
- Liquefaction and conversion processes;
- FLNG, FGTL and other upstream concepts;
- Subsea to shore options;
- Sour gas, high CO₂ content, hydrates and gas processing technologies;
- Case studies taken from the Arctic, deep waters and unconventional reservoirs.

Session form:

Contributions from the call for papers and invited panelists from exploration, production and service companies

Keywords:

FLNG, GTL, monetization, remote gas, stranded gas, small fields, unconventional gas, CBM, hydrates

Expert forum SG 1.3

Thursday 4 June 2015, 8:30-10:00

Gas on gas competition and upstream investment

Chaired by Marcos de Freitas Sugaya (Petrobras)

Objectives:

Over the last years a significant growth has been observed in the use of hub pricing mechanisms in lieu of the traditional long term contracts indexed in oil, and this is transferring market risks to the portfolio of gas producers. Could this significantly affect new upstream investment? Hub pricing is not a synonym of cheaper gas, and in the long term consumers could meet a completely different scenario.

Topics of interest include

- Gas pricing mechanism background;
- Tendencies in gas pricing for upstream investments;
- Price requirements for the production of unconventional gas;
- Upstream costs and project financing;
- Case studies on the production of gas.

Session form:

Contributions selected from the call for papers and invited guests.

Keywords:

Spot market, long term contracts, upstream investment, bankability, hub pricing, oil indexation, upstream costs, local content

Strategic panel

Tuesday 2 June 2015, 15:15-16:45

Gas flaring and venting reduction

Chaired by Bjorn Hams (World Bank) and Denis Krambeck Dinelli (IGU)

Objectives:

In spite of the considerable effort already developed to reduce the emissions of greenhouse gases derived from natural gas, substantial amounts are still flared or vented to the atmosphere for a number of reasons. These include insufficient infrastructure, poor access to the markets, inadequate planning, absence of political will and poor regulations. This strategic panel will describe the progress obtained so far, and will debate on the next steps to further reduce these emissions.

Topics of interest include:

- Regulatory and fiscal frameworks to incentivize flaring and venting reduction;
- Development of infrastructure to reduce flaring and venting;
- Standards for gas flaring and venting reduction;
- Success stories and best practices.

Session form:

- A panel discussion preceded by introductory presentations from invited speakers and contributions selected from the call for papers.

Keywords:

Gas flaring, gas venting, global warming, greenhouse gases, climate change, gas efficiency

Strategic panel

Thursday 4 June 2015, 15:15-16:45

Unconventional gas

Chaired by Denis Krambeck Dinelli (Petrobras) and Maria Gabriela Rosello (Total)

Objectives:

It has been a few years since the unconventional gas revolution completely changed the North American supply picture, and many countries are now trying to reproduce it in other parts of the globe, as the economic and social benefits are significant and better understood now. This session will analyse the most important barriers that must be overcome to fully exploit these benefits, including infrastructure requirements, fiscal incentives, regulations, business models and best practices to improve performance and reduce the environmental footprint.

Topics of interest include:

- Reasons and innovations behind the unconventional gas revolution;
- Regulatory and fiscal frameworks to incentivise the production of unconventional gas;
- Production of unconventional gas in different countries;
- Environmental issues associated with the production of unconvensionals;
- Use of technology to improve production performance and efficiency;
- Case studies and best practices.

Session form:

- A panel discussion preceded by introductory presentations performed by invited speakers, complemented with outstanding contributions selected from the call for papers.

Keywords:

Unconventional gas, shale gas, tight gas, North America, production of unconventional gas, upstream technologies, regulatory framework, fiscal incentives, environmental footprint