International Gas Union

2013

LNG Small Scale summit Amsterdam

19 juni 2013

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IGU represents over 95% of global gas market

IGU members
81 Charter members
40 Associate members
IGU serves as spokesperson for the gas industry

- Served the global gas industry since 1931
- Promotes political, technical & economic progress of the gas industry
- Emphasising sound environmental performance
- The World Gas Conference every 3 years
  - 2012: Kuala Lumpur - Malaysia
  - 2015: Paris - France
  - 2018: Washington D.C - USA

**Vision:**
IGU shall be the most influential, effective and independent non-profit organisation serving as the spokesperson for the gas industry worldwide.
IGU Committees

• 5 Working Committees
  Exploration & Production
  Storage
  Transmission
  Distribution
  Utilisation

• 6 Program committees
  Sustainability
  Strategy
  Gasmarkets
  LNG
  Marketing & Communication
  R&D and Innovation

• 3 Taskforces
  Human Resources
  Gas Advocacy
  Geopolitics
IGU is creating arenas for:

**Networking - Knowledge - Dialogue**

- **IGU World Gas Conference**
  - Paris 2015
  - Washington 2018

- **Co-owner of LNG Conferences**
  - LNG 17 in Houston, USA, April 2013

- **IGU Research Conference**
  - IGRC 2014 in Copenhagen, Denmark
IGU supports and organises

- 3rd IEF-IGU Ministerial Gas Forum

**3RD IEF - IGU MINISTERIAL GAS FORUM**

Call for Sustainable Energy Policies and Improved Cooperation - Enhancing the Role of Natural Gas

Paris, France, 16 November 2012

- IGU Symposium at UN Climate Change
- IGU Gas Award (Every 3 years)
Global Vision for Gas

The Pathway towards a Sustainable Energy Future

Presented to:

- Policyshapers and regulators
- IGU members advocating for gas
- Environmental organisations
- Press, media

Policymakers need to recognize the critical role that natural gas plays alongside other low-carbon options in reaching the UN climate goals, and facilitate the appropriate policy enablers.
The IGU Global Vision for Gas lays out a clear pathway towards a sustainable energy future

- Available resources
- Proven technology
- Sharply reduced greenhouse gas emissions
- Improved air quality and public health
- Affordable energy
- Job creation
Natural gas can enable renewable energy

**Natural Gas - Wind - Solar**

Natural gas can produce clean base load support for variable renewables

An ideal combination
Policy messages

Natural gas is a fuel very well-suited to meet the energy challenges in the context of a portfolio-approach consisting of:

- Reductions in energy use
- Enhanced energy efficiency
- Expanded use of low carbon technologies
- Greater resort to clean-burning natural gas

replacing more carbon-intensive fossil fuels such as coal and oil

Gas: Abundant, affordable, acceptable

Gas: Part of the long term energy solution
“Growing together towards a friendly planet”
“Growing together towards a friendly planet”

- Natural Gas is a “foundation” fuel, core pillar for a Sustainable Development

- Natural Gas must be available everywhere (new emerging countries, Africa) and its role will grow in Asia and South America...

- Continuity is key. We must build on the work carried out during the previous triennia.
“Growing together towards a friendly planet”
1. Natural Gas available everywhere

- LNG small scale creates smaller packages of, easy to transport, energy to remote areas

- Local gas infrastructure hubs (mini grids) can be created that may in a later stage be linked to each other via pipelines
2. Natural Gas for sustainable development

- NG for bunkers and roadfuel
- NG for heating and cooking (i.o. wood, oilproducts etc.)
  - Enabled by “mini grids” (1)
  - Both leading to lower CO2 emissions and pollution
3. Combination with renewables and electricity

- LNG to be delivered to gas fired powerplants of the newest generation in order to combine this fairly environmental friendly, but still fossil fuel, with all kind of renewables, ranging from biomass till sun and wind!
4. Human Resources for the future

• LNG is fairly new and therefore a “sexy” subject to work with (sexier than Gas)

• The opportunities of LNG to contribute to a sustainable development (2) and the combination with renewables (3) strongly appeal to the youth of today
Strategic guidelines: main headlines

“Growing together towards a friendly planet”

- Advocating for the development of natural gas as a foundation fuel for a Sustainable Development

- Promoting an accurate combination with Renewables & electricity

- Improving the availability of natural gas in new areas & in developing countries

- Attracting and retaining Human Resources for the Future
PCG D: LNG Topics for triennium 2012 – 2015
PCG D presidium

Chairman
Dirk van Slooten
Email: vsc.hattem@xs4all.nl

Vice Chairman
Masanori Oki
Email: oki@osakagas.co.jp

Secretary
Feikje Wittermans
Email: feikje.wittermans@vopak.com
Meeting schedule and deliverable planning

Kick-off
- 2-5 October 2012 - Shell
  - Brainstorm to set the scope of works, define deliverables, determine planning

Houston
- 14-16 April 2013 - Chevron
  - Collection of data and final scope; communicate scope to the presidium 2 weeks before the meeting
  - Submit yearly PGC D report to IGU

Spain
- 6-9 October 2013 *) - Enagas
  - Collection of data and first selection, share results of studies and draw conclusions

*) date subject to change
Meeting schedule and deliverable planning (2):

**Japan**
- 31 Marc – 4 April 2014 *) - Osakagas
  - Start drafting texts
  - Call for abstracts (due date October meeting)
  - Submit yearly PGC D report to IGU

**Malaysia**
- 9-12 September *) 2014 – Malaysian Gas
  - Initial drafts ready (send to presidium 2 weeks before the co-ordination meeting),
  - Work on drafts, start evaluating abstracts

**Qatar**
- 28-31 January 2015 *) - Qatargas
  - Final drafts ready to submit (send to presidium before 14 January 2015), finetune report and layout, choose Abstracts
  - Submit yearly PGC D report to IGU

*) dates subject to change
Chairman
Jean –Yves Capelle, Total, France
Email: jean-yves.capelle@ep.total.no

Objective
New developments at higher latitudes (Arctic) and in remote area (Africa or smaller communities) do bring new challenges for LNG and need different approach then in the past.

Deliverable
An overview of potential issues and recommendations to develop LNG projects in Arctic and remote conditions.

Timing
End of triennium.
PCG D Group 2: LNG as Fuel

Chairman
Richard Lammons, Chevron, USA
Email: Rlammons@Chevron.com

Objective
Create an overview of potential “new” markets for LNG and technical challenges in land transport fuels and shipping bunkers

Deliverable
A two fold report on land transport fuels and vessel bunkering

Timing
End of triennium.
PCG D Group 3: Small scale LNG

Chairman

Wouter Meiring, Shell, Netherlands
Email: Wouter.Meirling@shell.com

Objective
Create an overview of options, opportunities and challenges for small scale LNG terminals

Deliverable
An overview of potential regions/countries of interest as well as tailor made technical requirements/solutions.

Timing
End of triennium
PCG D Group 3: LNG life cycle analysis

Chairman
Ted Williams, Aga, USA
Email: TWilliams@aga.org

Objective
Comparison between hydrocarbon fuels (diesel & gasoline) and Natural Gas / LNG on the whole cycle from Well to wheel, including liquefaction.

Deliverable
Reliable data for comparison of LNG to other types of transportation fuels.
Identify main areas of improvement for LNG as fuel.

Timing
End of triennium
Sponsor & Chairman
Sponsor 2012-2015: **Total**

Chairman: Philippe Corbiere, Total, France
E-mail: [Philippe.Corbiere@total.com](mailto:Philippe.Corbiere@total.com)

**Objective**
Provide the most up to date information on LNG facilities and carriers.

**Deliverable**

**Timing**
Each year an update of the World LNG Report (mid year)
THANK YOU FOR YOUR ATTENTION

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