

# International Gas Union

2013

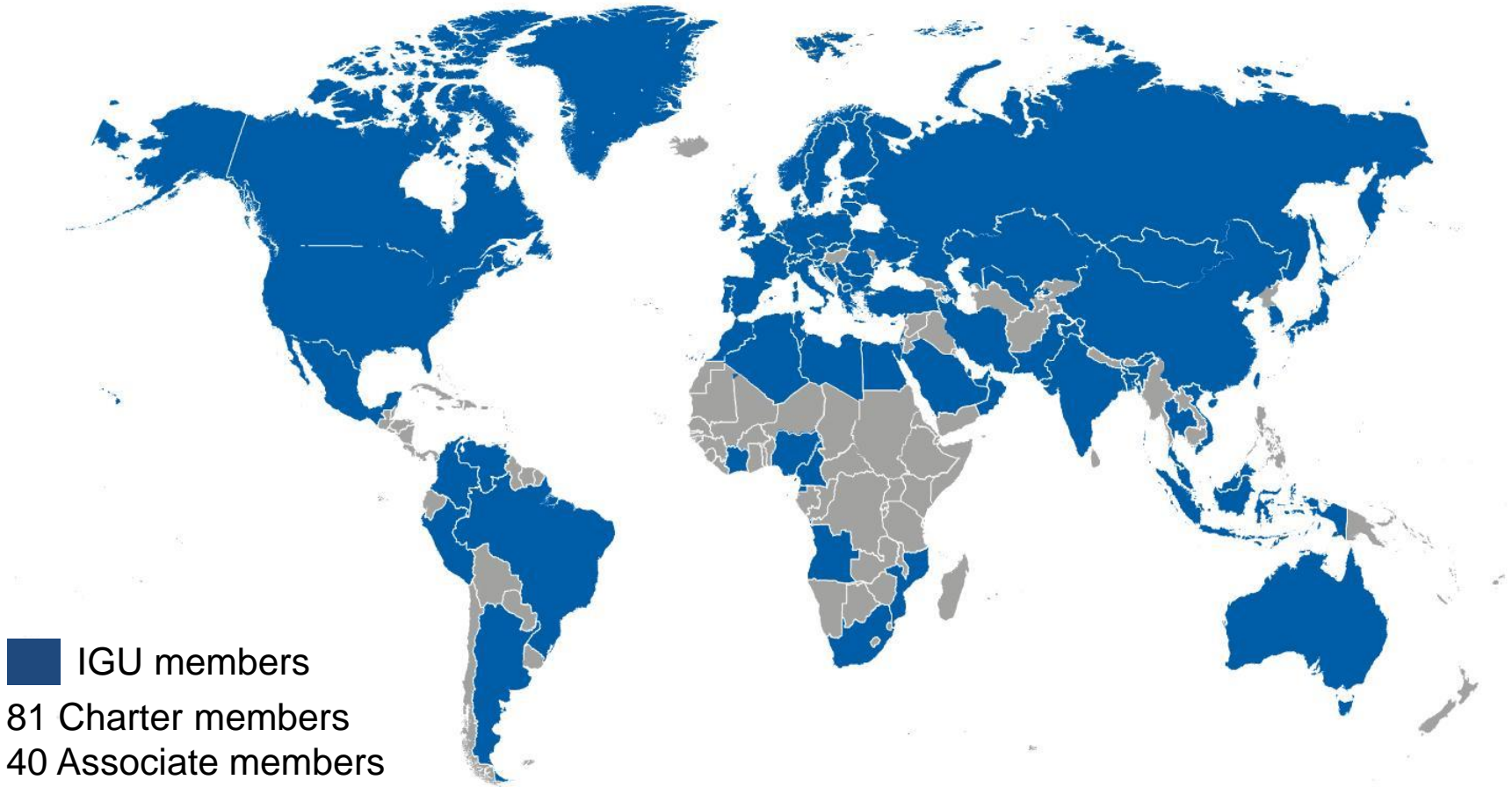
**LNG Small Scale  
summit Amsterdam  
19 juni 2013**



By: D.A. van Slooten

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# IGU represents over 95% of global gas market



# IGU serves as spokesperson for the gas industry

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- 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 COUNCIL



Vice President  
**David Carroll**  
USA



President  
**Jérôme Ferrier**  
FRANCE

### IGU MANAGEMENT TEAM

President, Vice President  
Immediate Past President  
Chair, Vice Chair CC  
Secretary General



Immediate Past President  
**Datuk (Dr) Abdul Rahim Hashim**  
MALAYSIA

## EXECUTIVE COMMITTEE

### IGU SECRETARIAT



Secretary General  
**Torstein Indrebø**  
NORWAY




Vice Chairman  
**Mr Mel Ydreos**  
USA


### COORDINATION COMMITTEE



Chair  
**Georges Liens**  
FRANCE



Director  
**Carolin Jeanet Oebel**  
NORWAY

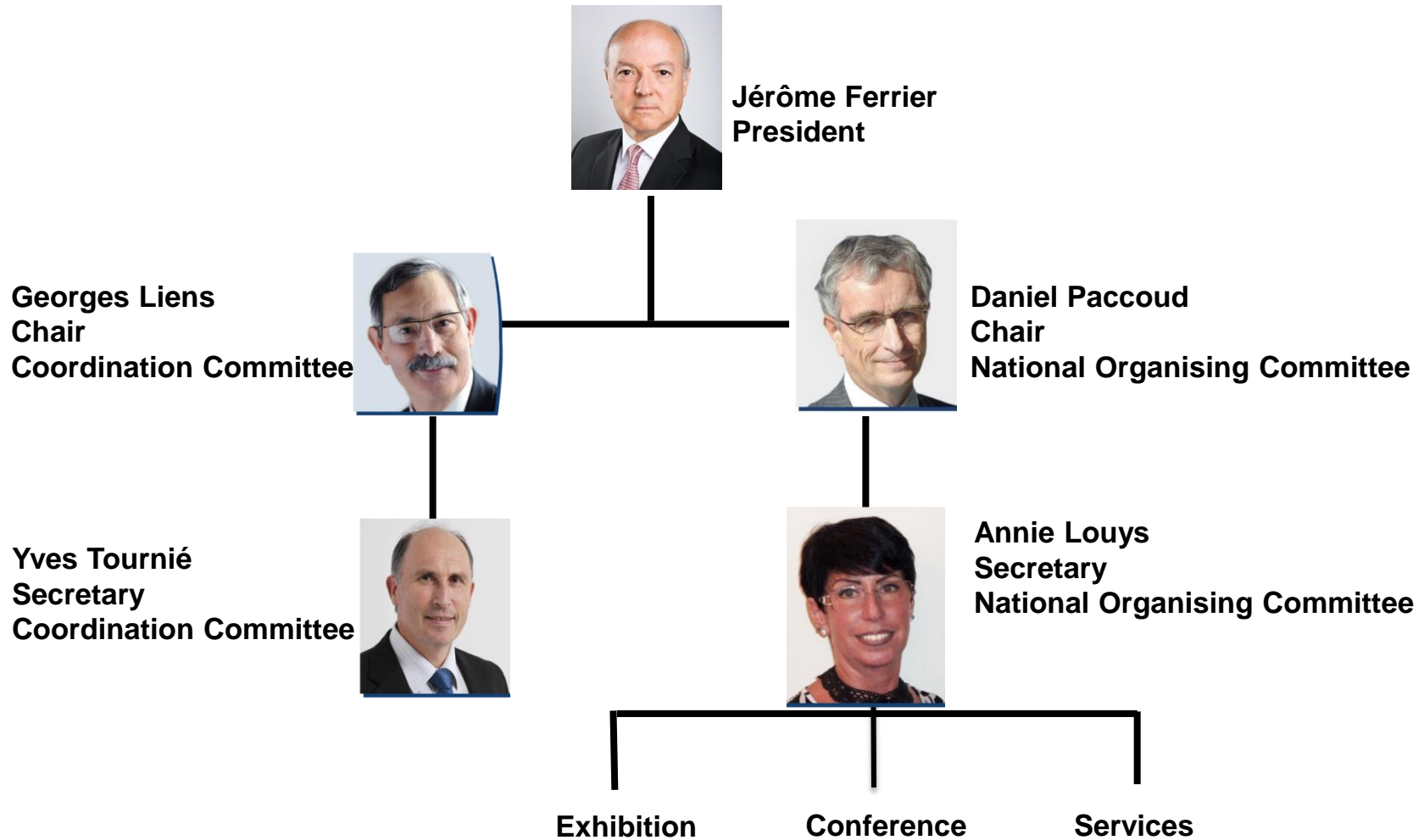


Communication Manager  
**Sjur Runar Bøyum**  
NORWAY



Secretary  
**Yves Tournié**  
France

# French Presidency 2012-2015



- 5 Working Committees
  - Exploration & Production
  - Storage
  - Transmission
  - Distribution
  - Utilisation

WORKING COMMITTEES		
<p>WOC 1 EXPLORATION &amp; PRODUCTION</p>  <p>Chair <b>Denis Krambeck</b> BRAZIL</p>	<p>WOC 2 STORAGE</p>  <p>Chair <b>Ladislav Goryl</b> SLOVAK REPUBLIC</p>	<p>WOC 3 TRANSMISSION</p>  <p>Chair <b>Benjamin Guzmán</b> ARGENTINA</p>
<p>WOC 4 DISTRIBUTION</p>  <p>Chair <b>Dietmar Spohn</b> GERMANY</p>	<p>WOC 5 UTILISATION</p>  <p>Chair <b>Eugene Pronin</b> RUSSIA</p>	

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

PROGRAMME COMMITTEES		
<p>PGC A SUSTAINABILITY</p>  <p>Chair <b>Satoshi Yosida</b> JAPAN</p>	<p>PGC B STRATEGY</p>  <p>Chair <b>Fethi Arabi</b> ALGERIA</p>	<p>PGC C GAS MARKETS</p>  <p>Chair <b>Dr Gi Chul Jung</b> REPUBLIC OF KOREA</p>
<p>PGC D LNG</p>  <p>Chair <b>Dirk van Slooten</b> THE NETHERLANDS</p>	<p>PGC E MARKETING &amp; COMMUNICATION</p>  <p>Chair <b>Alfredo Ingelmo</b> SPAIN</p>	<p>PGC F R&amp;D AND INNOVATION</p>  <p>Chair <b>Jack Lewnard</b> USA</p>

- 3 Taskforces
  - Human Resources
  - Gas Advocacy
  - Geopolitics

TASK FORCES		
<p>TF 1 HUMAN RESOURCES</p>  <p>Chair <b>Agnès Grimont</b> FRANCE</p>	<p>TF 2 GAS ADVOCACY</p>  <p>Chair <b>Michele Pizzoloto</b> ITALY</p>	<p>TF 3 GEOPOLITICS</p>  <p>Chair <b>Geert Greving</b> THE NETHERLANDS</p>



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



## 3<sup>RD</sup> 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)





- Cooperation – EU Energy Roadmap 2050
- Member State Forum, 15 February 2012
- EU Parliament exhibition & hearing, 23-27 April 2012

## Goals:

- Reach policy makers
- Increase awareness of NGO's, environmental organisations, etc
- Build new contacts, alliances



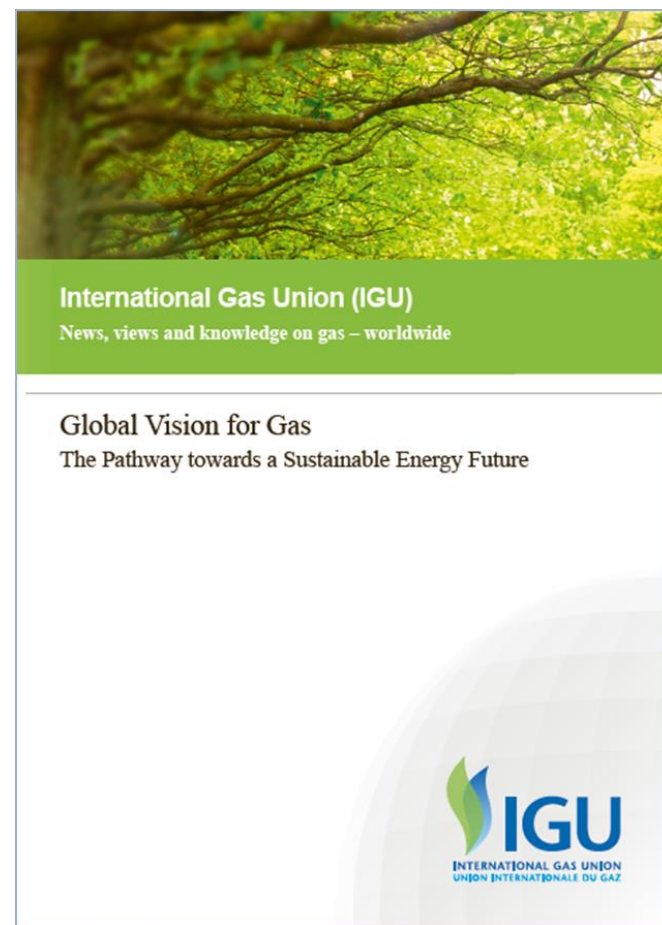
# Global Vision for Gas

## The Pathway towards a Sustainable Energy Future

### Presented to:

- Policymakers 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

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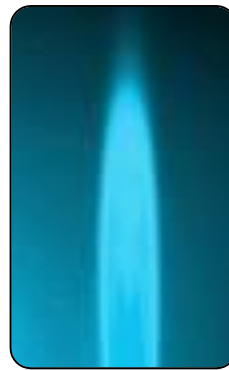
- Available resources
- Proven technology
- Sharply reduced greenhouse gas emissions
- Improved air quality and public health
- Affordable energy
- Job creation



# Natural gas can enable renewable energy

## Natural Gas - Wind - Solar

Natural gas can produce clean base load support for variable renewables



An ideal combination



## 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**

# Triennial Work program 2012 - 2015

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## French Presidency



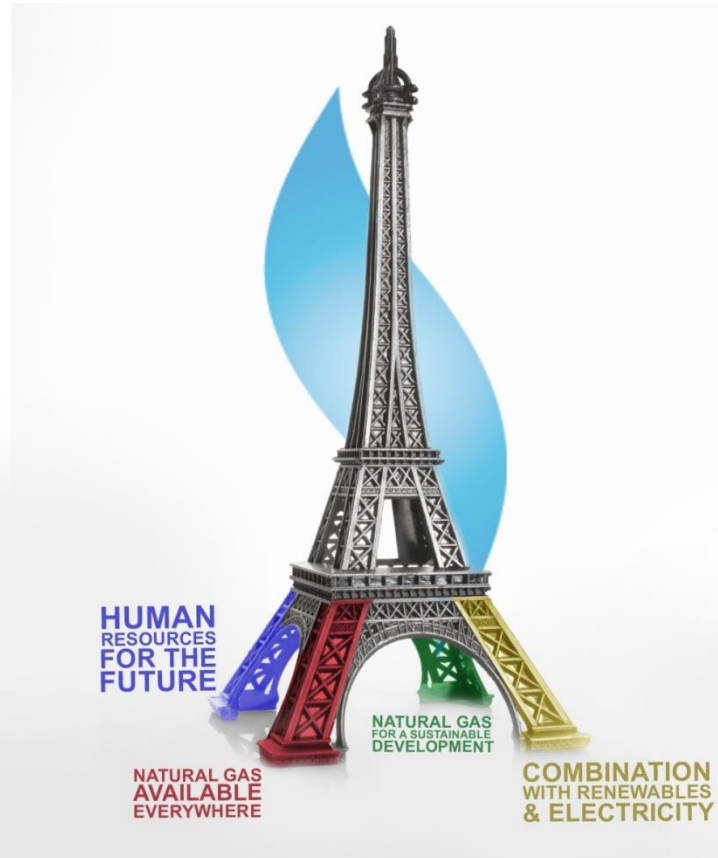
## Council Beijing October 21-25, 2013





# 2012 – 2015 Strategic vision for Paris

*“Growing together towards a friendly planet”*

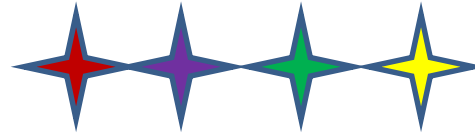


## *“ Growing together towards a friendly planet ”*

- ✦ 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.

# Strategic Vision 2012 – 2015

## The 4 pillars



*“Growing together towards a friendly planet”*

**HUMAN  
RESOURCES  
FOR THE  
FUTURE**



**NATURAL GAS  
FOR A SUSTAINABLE  
DEVELOPMENT**

**NATURAL GAS  
AVAILABLE  
EVERYWHERE**

**COMBINATION  
WITH RENEWABLES  
& ELECTRICITY**

# 1. Natural Gas available everywhere

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

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- NG for bunkers and roadfuel
- NG for heating and cooking (i.o. wood, oilproducts etc.)
  - Enabled by “mini grids” (1)
  - Both leading to lower CO<sub>2</sub> emissions and pollution

# 3. Combination with renewables and electricity

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- 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

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- 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

## *“ 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



**HUMAN RESOURCES FOR THE FUTURE**

**NATURAL GAS AVAILABLE EVERYWHERE**

**NATURAL GAS FOR A SUSTAINABLE DEVELOPMENT**

**COMBINATION WITH RENEWABLES & ELECTRICITY**

## Chairman

Dirk van Slooten

Email: [vsc.hattem@xs4all.nl](mailto:vsc.hattem@xs4all.nl)



## Vice Chairman

Masanori Oki

Email: [oki@osakagas.co.jp](mailto:oki@osakagas.co.jp)

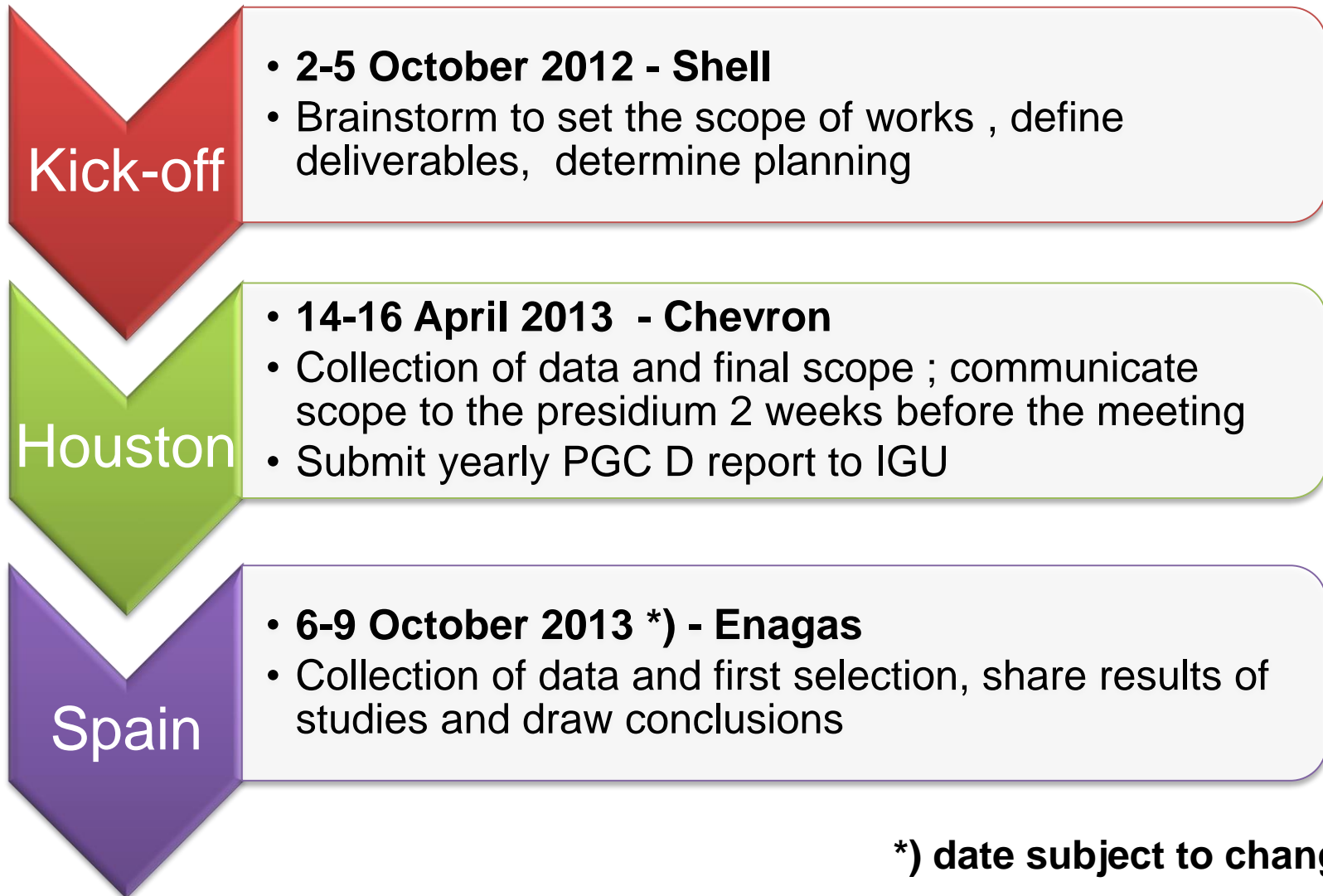


## Secretary

Feikje Wittermans

Email: [feikje.wittermans@vopak.com](mailto:feikje.wittermans@vopak.com)





**\*) date subject to change**

# Meeting schedule and deliverable planning (2):



**\*) dates subject to change**



# PCG D Group 1: Remote LNG

## 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.Meiring@shell.com](mailto:Wouter.Meiring@shell.com)



## Objective

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

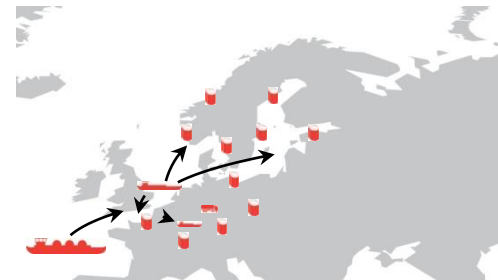


## Deliverable

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](mailto: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

# PCG D Annual World LNG Report

## 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

Annual World LNG Report – 2013, 2014 and 2015

## Timing

Each year an update of the World LNG Report (mid year)



***THANK YOU FOR YOUR ATTENTION***

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