



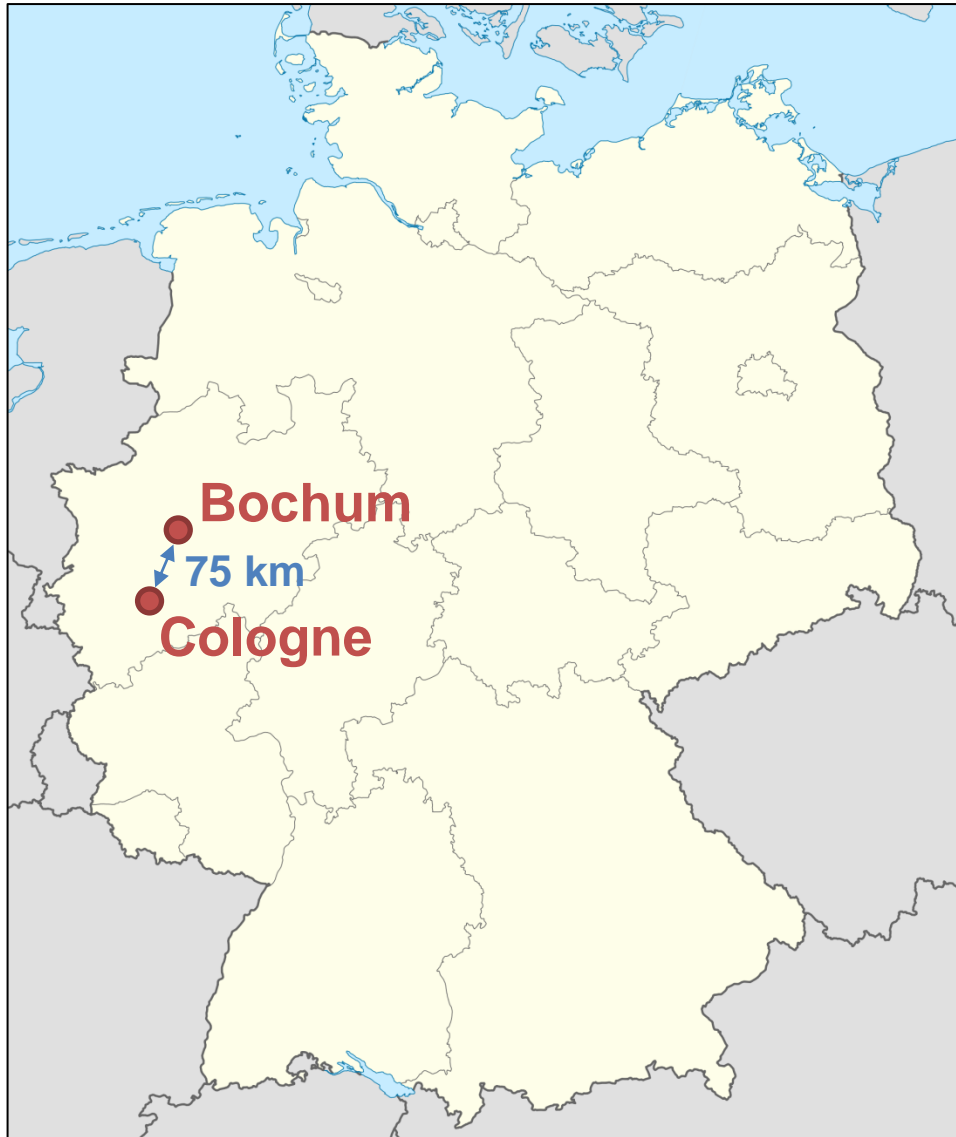
# International Gas Union Working Committee 4 Distribution

Committee Meeting  
10<sup>th</sup> October 2012, 09.00 – 13.00

First Meeting,  
9th – 12th October 2012,  
Cologne, Germany



# IGU WOC 4 – Distribution



**Welcome to Cologne  
for the first meeting  
of IGU WOC 4 in  
the new triennium!**

**STADTWERKE  
BOCHUM**



- Stadtwerke Bochum provides energy (electricity, gas, district heating) and water to the city of Bochum (pop. 370.000)
- Stadtwerke Bochum produces electricity and stores gas in cooperation with partners
- History of Stadtwerke Bochum
  - 1855: Start of operation with the supply of city gas
  - 1871: Commissioning of the first water line
  - 1892: Beginning of electricity supply
  - 1954: Development of district heating
  - 1998: Foundation of the **ewmr**
  - 2001: Participation at Trianel
  - 2003: Takeover of Gelsenwasser
  - 2010: Participation at Steag

# IGU WOC 4 – Agenda of the 1<sup>st</sup> meeting

	Tuesday	Wednesday	Thursday	Friday
Morning		<b>09.00 – 13.00</b> Committee Meeting	<b>09.00 – 12.00</b> Study Groups	<b>08.15 – 13.30</b> Social Tour and Farewell Lunch
Afternoon		<b>14.00 – 17.00</b> Study Groups	<b>13.00 – 14.30</b> Plenary Meeting	
Evening	<b>19.30 – 21.30</b> Welcome Buffet	<b>18.30 – 22.15</b> Gala Dinner	<b>15.00 – 22.00</b> Cologne Cathedral and Dinner	

# IGU WOC 4 – Agenda for Wednesday

- 09.00 – 09.15 Welcome and Opening; *Dietmar Spohn (WOC 4 Chair)*
- 09.15 – 09.20 Adoption of Agenda; *Dietmar Spohn (WOC 4 Chair)*
- 09.20 – 09.50 Introduction of Members; *each member*
- 09.50 – 10.20 Introduction to the 2012 – 2015 Triennium; *Yves Tournie (IGU CC Secretary)*
- 10.20 – 10.30 Time-schedule of WOC 4 for the 2012 – 2015 Triennium; *Dietmar Spohn (WOC 4 Chair)*
- 10.30 – 10.40 Introduction of SG 4.1: Regulation of Third Party Access to Gas Distribution Networks – A Standard Approach; *Jose Carlos Broisler Oliver (Leader SG 4.1)*
- 10.40 – 10.50 Introduction of SG 4.2: Diversification of Gas Quality and Nonconventional Sources in a Carbon-free Future; *Peter Flosbach (Leader SG 4.2)*
- 10.50 – 11.00 Introduction of SG 4.3: Smart Grids in Gas Distribution; *Pascal Vercaemer (Leader SG 4.3)*
- 11.00 – 11.15 *Break*
- 11.15 – 13.00 Current Topics in the German Gas Industry; *Maik Dapper (DVGW)*
- 13:00 – 14:00 *Lunch*
- 14.00 – 15.20 Work in study groups
- 15.20 – 15.40 *Break*
- 15.40 – 17.00 Work in study groups

# IGU WOC 4 – Agenda for Thursday

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09.00 – 10.20 Work in study groups

10.20 – 10.40 *Break*

10.40 – 12.00 Work in study groups

12:00 – 13:00 *Lunch*

13.00 – 13.15 Results of SG 4.1; *Jose Carlos Broisler Oliver (Leader SG 4.1)*

13.15 – 13.30 Results of SG 4.2; *Peter Flosbach (Leader SG 4.2)*

13.30 – 13.45 Results of SG 4.3; *Pascal Vercamer (Leader SG 4.3)*

13.45 – 14.00 Time-Schedule; *Dietmar Spohn (WOC 4 Chair)*

14.00 – 14.10 Preparation of the Next Meeting; *Jose Carlos Broisler Oliver (Leader SG 4.1)*

14.10 – 14.20 Any Other Business; *each member*

14.20 – 14.30 End of Meeting; *Dietmar Spohn (WOC 4 Chair)*

# IGU WOC 4 – Introduction of members

## The management team:



**Chairman: Dietmar Spohn**

*Managing Director, Stadtwerke Bochum, Germany*

E-Mail: [dietmar.spohn@stadtwerke-bochum.de](mailto:dietmar.spohn@stadtwerke-bochum.de)



**Vice Chairman: José Maria Almacellas**

*Gas Distribution Technical Director,  
Gas Natural Fenosa, Spain*

E-Mail: [jmalmacellas@gasnatural.com](mailto:jmalmacellas@gasnatural.com)



**Secretary: Uwe Klaas**

*Senior Technical Manager,  
DVGW Deutscher Verein des  
Gas- und Wasserfaches,  
Germany*

E-Mail: [klaas@dvgw.de](mailto:klaas@dvgw.de)

# IGU WOC 4 – Introduction of members

## The study group leaders:



**SG 4.1: José Carlos Broisler Oliver**

*COMGAS, Brazil*

E-Mail: [joliver@comgas.com.br](mailto:joliver@comgas.com.br)



**SG 4.2: Peter Flosbach**

*RWE Westfalen-Weser-Ems, Germany*

E-Mail: [peter.flosbach@rwe.com](mailto:peter.flosbach@rwe.com)



**SG 4.3: Pascal Vercamer**

*GDF SUEZ, France*

E-Mail: [pascal.vercamer@gdfsuez.com](mailto:pascal.vercamer@gdfsuez.com)



# IGU WOC 4 – Introduction of members

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Let's get known to each other!

Please introduce yourself briefly.

# Introduction to the 2012 – 2015 Triennium

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Presented by Mr **Yves Tournie**, IGU CC Secretary  
(→ 21\_Presentation\_Tournie.pdf)

# IGU WOC 4 – Introduction of Work Programme

Gas distribution companies in many countries are subject to a changing economical environment. After the unbundling of the large gas companies into transport service operators and gas sales companies, the distribution companies are targeted now by the regulation authorities. In addition to that, third party access is becoming an growing issue, with the number of suppliers increasing, and not only with natural gas to enter. Biomethane and hydrogen are ecological sound entries, but to manage a stable gas quality also for sensible clients does not become easier. One solution could be smart grids and their possibilities in dispatching and quick response. Which in turn needs operating staff just as smart, and up-to-date with the fast development of electronic aides.

## **WOC 4 Study Groups in the 2012 – 2015 Triennium**

1. Regulation on Third Party Access to Gas Distribution Networks – A Standard Approach
2. Diversification of Gas Quality and Non-conventional Sources in a Carbon-free Future
3. Smart Grids in Gas Distribution

# IGU WOC 4 – Who is doing what?

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## Tasks of

- The Chairman
- The Vice Chairman
- The Study Group Leaders
- The Secretary
- The Papers Selection Committee
- All Members and Alternates

# Tasks of the Chairman

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The chairman of the committee

- Chairs the committee meetings
- Develops and proposes the meeting agenda
- Represents the committee to the outside, in particular within the IGU
- Participates in the meetings of the IGU CC, reporting about the activities and work progress of the committee
- Chairs the selection of contributions (papers, posters etc.) for the committee within the frame of the next WGC
- Contributes to the committee report, in particular to those parts not developed by the study groups

# Tasks of the Vice Chairman

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The vice chairman of the committee

- Deputizes for the chairman whenever the chairman is unable to fulfil his tasks
- Develops the work programme of the committee for the subsequent triennium
- Contributes to the committee report, in particular to the outlook section
- Is a member of the paper selection committee

# Tasks of the Study Group Leaders

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The leader of a study group

- Chairs the sessions of his study groups
- Keeps up the communication within the study group
- Develops the frame of the study group report
- Delegates tasks within the study group for distinctive aspects of the report
- Writes the study group report under regard of the deadline
- Is a member of the paper selection committee

# Tasks of the Secretary

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## The secretary of the committee

- Supports the chairman in all activities
- Keeps track of all committee activities
- Keeps up the committee homepage at <http://www.igu.org>
- Keeps up the communication with the committee members and alternates
- Prepares the invitation for the meetings
- Produces the meeting guidelines in cooperation with the chairman, based on the notes taken at the meeting by himself
- Produces the meeting reports
- Produces the framework for the committee report and fixes the report together based on the deliveries from chairman, vice chairman and study groups
- Distributes the proposals for the technical programme of the committee at the WGC as received from the call for papers
- Is part of the papers selection committee
- May deputize for the chairman at IGU CC meetings



# Tasks of the Papers Selection Committee

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## The papers selection committee

- Consists of the committee chairman, the vice chairman, the study group leaders, the secretary, and some experienced committee member volunteers
- Has only one job: to preselect contributions suitable for the technical programme of the committee during the next WGC from the response received upon the call for papers
- Shall make their proposal based on several aspects as actuality, general professional interest, regional aspects, suitability either for oral or poster presentation etc.
- Final decision about the selection is up to the committee plenary

# Tasks for all Members and Alternates

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All members and alternates of IGU WOC 4

- Are requested to participate in all committee meetings
- Are requested also to participate actively in the work of one study group, where member and alternate of a country should become members of different study groups
- Shall provide distribution specific information from their country to WOC 4
- Shall also disseminate the knowledge gathered in WOC 4 within the gas industry of their country
- Shall have fun in meeting each other!

# IGU WOC 4 – Meeting Schedule

Meeting	Proposed date	Meeting topics	Corresponding meeting of IGU-CC
1	9 – 12 Oct. 2012 Cologne, Germany	- Analyse study group topics - Define areas of study - Questionnaire framework (?)	15 Oct. 2012 Ottawa, Canada
2	18 – 22 Mar. 2013 Sao Paulo, Brazil	- Final questionnaire (?) → Release date: April 2013	9 – 11 Apr. 2013 Seville, Spain
3	30 Sept. – 4 Oct. 2013 France (?)	- Analyse questionnaire answers (?)	23 Oct. 2013 Beijing, China
4	3 – 7 Mar. 2014 Madrid, Spain (?)	- First draft WOC 4 report	25 – 27 Mar. 2014 Brisbane, Australia
5	22 – 26 Sept. 2014 Vienna, Austria (?)	- Final draft WOC 4 report - WGC preparation	15 Oct. 2014 Berlin, Germany
6	2 – 6 Mar. 2015 tbd	- Final WOC 4 report - WGC preparation	24 – 26 Mar. 2015 Cairo, Egypt

# WOC 4 Study Group 1: Regulation on Third Party Access to Gas Distribution Networks – A Standard Approach

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- Examination of the development of regulation over the last decade in different countries
  - Access of gases other than natural gas
  - Development of marketing/charging areas
  - Change of energy balancing and transfer options for costs
  - Unbundling of distribution companies
  - Training and qualification of personnel
  - ...
- Preparation of an “IGU Network Code”

# WOC 4 Study Group 2:

## Diversification of Gas Quality and Nonconventional Sources in a Carbon-free Future

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### Scope and Purpose

For decades, the source of natural gas supplies to given location remained unchanged. Generally, distribution grids comprised one or possibly two sources of supply, based on long-term delivery contracts.

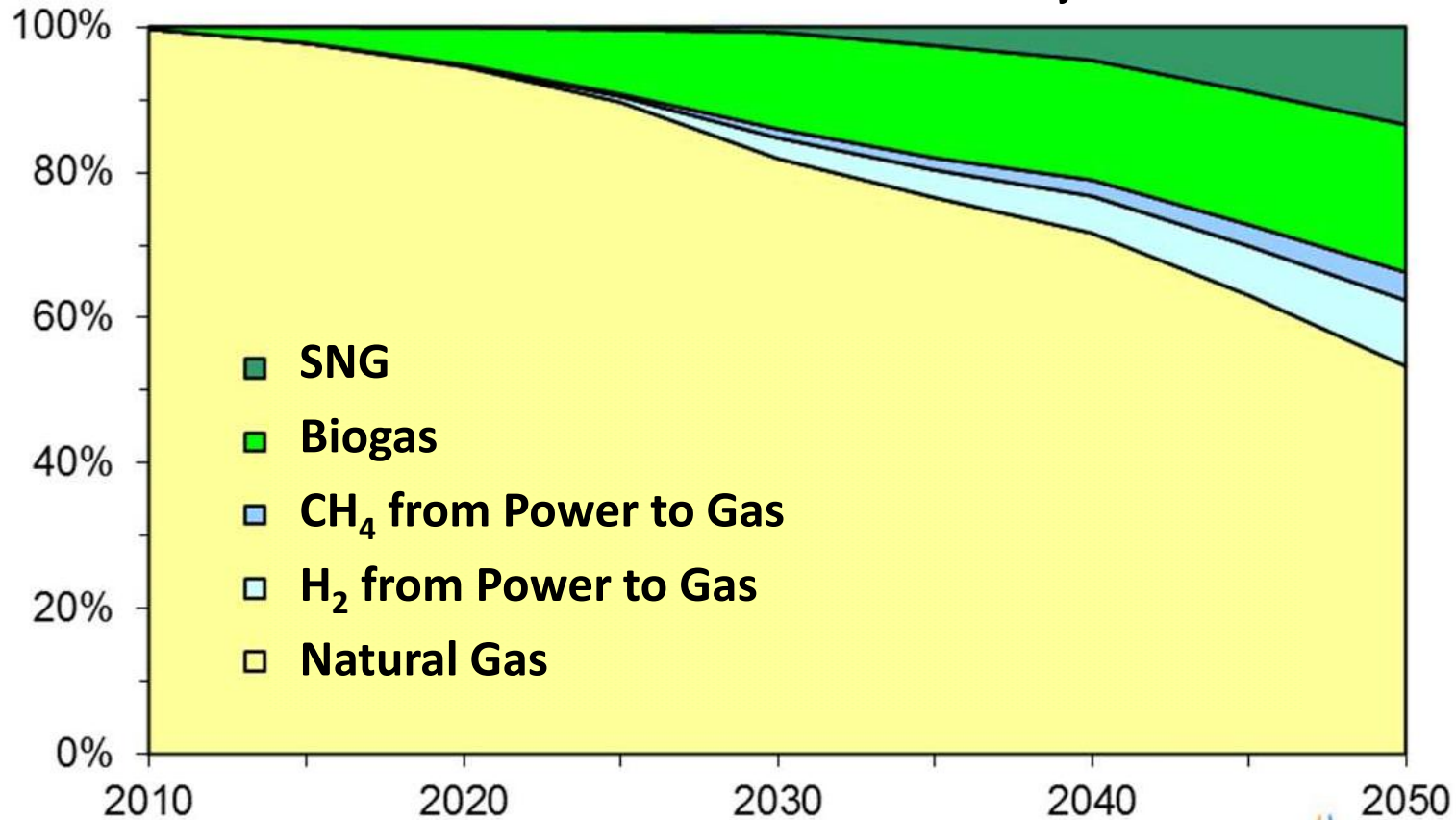
In many parts of the world, this is no longer the case. The situation has changed over the past few years and is continuing to change. The reasons for this change are multiple:

- Growing diversification of gas quality
- Different sources of supply due to short-term contracts
- Change between pipeline-based and LNG-based supplies
- Development of local gas fields (e.g. shale gas)
- Increasing injection of gases from non-conventional sources in a move towards a carbon-free future
- Bio-methane
- Hydrogen
- SNG

This Study Group will examine the different options available for managing this diversification of gas quality, and ways distribution companies can address this growing challenge to secure stable gas supplies for their customers.

# Renewable gases will strongly contribute to reduce the CO<sub>2</sub> emissions in Germany

## Gas innovation initiative - Germany



Source: gas innovation initiative of the DVGW

# WOC 4 Study Group 2:

## Diversification of Gas Quality and Nonconventional Sources in a Carbon-free Future

### Open questions to be discussed:

- Management of gas quality at the production side or at the consumer side (smart or more tolerant applications)?
- Available options for managing the diversification of gas quality
- Determination of acceptable concentrations for the injection of renewable gases (e.g. hydrogen)
- Characteristics of shale gas and its potential impact on gas distribution grid infrastructures
  - Quality management (monitoring and dispatch)?
  - Experiences gained in the US or other shale gas markets
- Preferred evolutionary steps towards a carbon-free future from a distribution system operator standpoint
  - Technologically development (evaluation of technological maturity, impact on security of supply)
  - Economically most cost effective procedure
  - What kind of gases support the aimed CO<sub>2</sub> reduction targets most effectively (Bio-methane, Hydrogen, SNG, etc.)?
- ...

# WOC 4 Study Group 3: Smart Grids in Gas Distribution

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- Increasing application of smart grids in gas transport systems
- A concept that is yet to be defined and explained
- Following of the examination of smart meters in the current triennium
- Open questions to discuss:
  - Are smart grids feasible for a distribution grid at a reasonable cost?
  - How likely is a coherent development with the electric power grid?
  - Are the clients or the suppliers ready for smart grids?
  - Is the personnel appropriately trained?
  - ...



# Current Topics in the German Gas Industry

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Presented by Mr **Maik Dapper**, DVGW  
(→ 22\_Presentation\_Dapper.pdf)