



**27th WORLD GAS
CONFERENCE**

WASHINGTON DC

**JUNE
25-29 2018**

WOC 4 DISTRIBUTION Provisional Triennium Work Programme for the USA IGU Triennium June 2015 – June 2018

Meeting WOC 4 Prague

March 5th 2015

Fueling the Future

Areas of strategic importance for the USA Triennium

- **ACCESS** – development of supply, removal of barriers towards infrastructure development
- **MARKETS**- increasing opportunities to grow demand, integration of gas with other forms of energy, removal of market barriers
- **SOCIAL LICENSE** –improvement to safety and reliability, reduction of the environmental impact, driving higher energy efficiency, improving community engagement

Basis of the work of the WOC4 at the next triennium: The Distribution activity is placed very close to present and potential consumers and it is necessary to the development of supply, to develop markets and to improve the image of natural gas as a safe, efficient and reliable energy.

Topic 1: Optimization of Natural Gas Supply for new Towns

- **ACCESS & Social License** related subjects
 1. **Optimization of Natural Gas Supply for new Towns:** The gas supply for new towns shall overcome sometimes challenges as the distance to the pipeline (isolated areas) or demanding environmental requirements for network laying that make not feasible the gas supply from the economic point of view. Some possible alternatives are:
 - Supply chain transporting natural gas to final consumers or isolated distribution networks in the form of CNG or LNG, using road and sea means of transportation, such as truck, vessels and rail. Useful to supply remote and dispersed consumers;
 - New laying technologies: Laying of distribution networks more respectful with the urban environment and reducing as much as possible the laying costs.

Scope: Technologies, Economic results and regulatory issues



Topic 2: Role of the Distribution System Operator

Market related subjects

2. Role of DSO: Placed at the end of the gas chain, and close to local economic actors and gas consumers, DSOs have an essential role as an active deployer of natural gas networks but also as a market creator and facilitator:

- by promoting new connections to the gas grid and current and new efficient uses of natural gas and by investing on them. All stakeholders benefit from the corresponding natural gas market enlargement;
- by providing services as new connections, metering, customer data management information to customers and suppliers, organization of switching and moving, emergency calls, safety of customer installations, etc.

Scope: Best practices in different countries. Regulatory limits
Recommendations (Coordination with PGCD)

Topic 3: Quality management in Gas Distribution Companies

- **Social License** related subjects:

3. Quality & Safety management in Gas Distribution Systems: The DSO is placed at the end of the gas chain, and very close to gas consumers and carrying out activities that can have an important impact on the urban life so that distribution is providing the final customer with the closest image of the gas industry. The quality management of the distribution activity is then essential for the improvement of gas image. It is proposed a revision of the different quality and safety management systems used by DSOs including:

- Training, Skill assessment and certification of personnel working on gas distribution activities, considering both own personnel and contractors
- Models of safety management of personnel working in gas distribution works;
- How Quality & Safety is measured?;
- Certification of Gas Distribution companies;

Scope: Revision of best practices and quality management systems. Regulation

Topic 4: Distribution of Green Natural Gas

- **Social License** related subjects:

4. Distribution of green natural gas: The utilization of the gas distribution networks as a tool for the RES integration is one of the main challenges of the gas industry: Injection of biomethane, H₂ from P2G, etc. As a continuation of the work carried out along the present triennium we propose to study the following items:

Scope:

- Technologies and economy of the biogas upgrading to biomethane;
- Regulation regarding responsibilities of injection, gas quality control, and balancing. Relationship producer - DSO;
- Different Remuneration schemes and support schemes;
- Certification of green natural gas.



WOC 4: Provisional Meeting Schedule 2015 - 2018

Meeting	Proposed date	Meeting topics	Corresponding meeting of IGU-CC
1	15 – 18 September 2015 Barcelona (Spain)	<ul style="list-style-type: none"> - Analyse study group topics - Define areas of study - Questionnaire framework - Intermediate deliverables framework 	18 October 2015 Cartagena, Colombia
2	8 – 1 March 2016	<ul style="list-style-type: none"> - Final questionnaire - Work on intermediate deliverables 	4 April 2016 South Africa
3	20 - 23 September 2016	<ul style="list-style-type: none"> - Analyse questionnaire answers - First draft intermediate deliverables 	16 October 2016 Amsterdam (NL)
4	7 - 10 March 2017	<ul style="list-style-type: none"> - First draft WOC 4 report - Final draft intermediate deliverables 	2 April 2017 Muscat , Oman
5	19 - 22 September 2017	<ul style="list-style-type: none"> - Final draft WOC 4 report - Final intermediate deliverables - WGC preparation 	15 October 2017 Tokyo, Japan
6	6 - 9 March 2018	<ul style="list-style-type: none"> - Final WOC 4 report - WGC preparation 	15 April 2018 Cairo, Egypt

WOC 4 Team for the USA Triennium



Chairman Distribution Committee (WOC-4)

José M. Almacellas
Gas Distribution Technical Director
Gas Natural Fenosa
Spain



Vice-Chairman Distribution Committee (WOC-4)

José Carlos Broisler
Operations Director
Comgás
Brazil



Secretary Distribution Committee (WOC-4)

Carlos Villalonga
Vice-Secretary
Spanish Gas Association (Sedigas)
Spain





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Topics WOC4 next triennium 2015 – 2018

First draft of topics

1. Role of DSO, market creation and facilitation
2. Operational excellence of distribution activities (quality and safety)
3. System integration of green gas and other energies