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The International Gas Union (IGU) currently represents the natural gas industries of 91 nations and has the mission of promoting the technical, economic and political interests of the natural gas industry.

We are entering the next three years of the IGU’s long and distinguished history at a time of great uncertainty, shift and debate about the future global energy systems. While these may represent challenges, at the same time great opportunities exist.

Natural gas holds great promise to make a very sustainable and significant contribution to the global energy systems. The continued and expanded use of natural gas can have a very positive impact on citizen’s lives across the globe. The ongoing industry innovations, including the development of new technologies will have an even greater impact on its availability, efficiency and utilization.

The USA Presidency and Secretariat team welcomes the opportunity to serve, support and lead the IGU over the next three years and at the conclusion of the triennium host the World Gas Conference in Washington, D.C. in 2018.

This brochure highlights the Triennial Work Program (TWP) and provides the plan for the next three years for each committee, including the focus, and the scope of studies and projects. In their entirety it demonstrates the breadth and scope of the expertise that has been assembled from all over the world to form a team capable of driving IGU’s mission. Working together, we can share knowledge, learn from each other, educate the key stakeholders and policy decision makers about the benefits of natural gas and support natural gas as a global energy solution.

We look forward to working with all IGU committee members throughout the Triennium and welcoming you to Washington, D.C. for the 2018 World Gas Conference.

David Carroll  
President, IGU

Pal Rasmussen  
Secretary General, IGU

Menelaos(Mel) Ydreos  
Chairman,

Coordination Committee, IGU
INTRODUCTION TO THE TRIENNIAL WORK PROGRAM 2015–2018

The TWP lays out the work and activities that the IGU committees and task forces will carry out during the next three years. The focus and aim is to support the mission of the organization while at the same time contribute to the IGU’s efforts towards becoming the global voice of gas.

While traditionally the objective of the committees and task forces has been to deliver and present their work at the World Gas Conference, the reality of today’s energy markets means that the committees need to become much more dynamic, active and engaged in supporting the Presidency and Secretariat efforts during the triennium.

Great care has been taken to ensure that all of the work and activities of the committees and task forces align and support the areas of strategic focus established for the Triennium. These areas of strategic focus have received the endorsement of the IGU’s executive committee.

The IGU Presidency and Secretariat warmly invite all Charter and Associate members to nominate individuals from their ranks to join and support the work of the committees. Each committee member chooses which of the committee study groups that he/she would like to participate in. Nominations of active participants (and alternates) who will be able to travel to attend at least one full committee meeting and one study group meeting each year are preferred. Our experience is that the personal contact, group interaction and cultural/social experiences through active participation in IGU working meetings, is of significant added value for the participating companies. Not only is the international outlook of key staff developed through the IGU experience, but the increased knowledge and insight from sharing information with technical and commercial peers in other countries provides a unique opportunity for improved future decision making and enhanced business relationships.
THE THEME OF THE TRIENNIOUM  
FUELING THE FUTURE

Following extensive consultation and input, the USA Presidency established the theme for the triennium as Fueling the Future.

The theme communicates in a simple and impactful manner the important future role and promise of natural gas. Clean, abundant natural gas has the potential to affect every aspect of life throughout the world, from the traditional role in heat and cooking to the power needed and to the products that are manufactured and used. Indeed, natural gas can be viewed as a foundation fuel across the globe.

Fueling the Future means a future world that is less carbon intensive and a vastly improved air quality in the world’s mega-cities.

AREAS OF STRATEGIC FOCUS

The USA Presidency and Secretariat will work tirelessly to ensure that the IGU will make a positive, measurable impact on the global industry and its customers. Alignment of the IGU’s committees and task forces is critical to delivering on this commitment.

As such, the following three areas of strategic focus have been established in order to guide the work and the efforts of the Committees and Task Forces:

**Access**—We’ll focus on work and activities to aid the industry’s ability to access natural gas resources and promote timely build-out of the infrastructure required to produce, transport, store and deliver natural gas to existing markets.

**Markets**—Expanding global markets for natural gas is good for the consumers and good for the industry. We’ll advocate for new market opportunities for natural gas and to reduce barriers to its commercial trade.

**Social License**—Our industry has a long history of safe and responsible gas production, transport and delivery. We must remain diligent in our efforts to continuously improve the way we do business.
STRUCTURE AND ORGANIZATION

The IGU has a long history of establishing committees and task forces to deliver the TWP.

One of the changes being implemented for the Triennium is that the terms WOC’s and PGC’s will be dropped in favor of the term committee.

As such, a total of 11 committees and two task forces have been set up.

The other change being made is that while in the past the task forces have generally operated stand alone and independent from the committees, during the Triennium, there will be heavy emphasis on much closer cooperation and integration of the work of the task forces with that of the committees.

The overall responsibility for oversight of the committees lies with the Coordination Committee (CC), which is comprised of the chairman, vice-chairman, secretary and all the chairs of the committees and task forces.

Another change being made is that membership to the CC will also include representation from the Secretariat, further aligning and coordinating the overall efforts.

The CC holds at least two meetings every year to evaluate the progress of the committees and to plan for the deliverables during the course of the triennium and during the World Gas Conference.

SCOPE AND DELIVERABLES

The committees and task forces through their work will shape the technical program that will be presented at the 27th World Gas Conference, which will be held in Washington, D.C. from June 25-29, 2018.

The deliverables will include reports, studies, best practices and presentations specific to their areas of studies. In addition intermediate deliverables on specific issues and in support of raising the global voice of gas through symposia, seminars, workshops as well as publications will be necessary.
Committees and Task Forces
Terms of Reference

Exploration and Production Committee

Chair
Mohd. Redhani A. Rahman
Malaysia

Vice Chair
Ekaterina Litvinova
Russia

Committee Role:
The committee will focus on the exploration and production (E&P) of conventional and unconventional natural gas resources, the development and use of the latest technological advances and best practices as well as the challenges in accessing these resources. The committee will also investigate the “Next Big Thing” in E&P of natural gas including new gas resource opportunities and future E&P technologies.

Study Groups:
The committee will operate with three study groups that will focus on the following.

1. Conventional resources of natural gas
2. Unconventional resources of natural gas
3. The “Next Big Thing” in exploration and production
COMMITTEE ROLE:
The committee will focus on the technical aspects of underground storage (UGS) of natural gas and will include the evolving role of storage particularly in support of the expanded use of renewable energy.

STUDY GROUPS:
The Storage Committee will operate three study groups that will focus on the following:

1. Maintaining an active database on UGS in operation and UGS projects worldwide
2. Defining best practices in UGS operations
3. Operating UGS in today’s gas markets that includes support for renewable energy and grid balancing, the utilization of storage to reduce flaring, and supporting new LNG projects.
Transmission Committee

CHAIR

Martin Slaby
Czech Republic

VICE CHAIR

Patrick Pelle
France

COMMITTEE ROLE:
The Transmission Committee focuses on all aspects of pipeline operations including technology, economics, and the environmental and societal impact.

STUDY GROUPS:
There will be three study groups that will focus on the following:

1. Transmission pipeline diversification
   - New transmission pipelines in a global scale
   - Role of regional transmission networks and bidirectional pipelines
   - Other gases in traditional pipeline systems, in kind and quality

2. Effective Operations- precondition for market competitiveness
   - Cost effective operation of gas transmission systems
   - Gas balance: Identification and reduction of losses.
   - Asset Management approach (ISO 55001)

3. Safety and Environmental Performance of Gas Transmission Systems
   - Pipeline integrity management
   - Corrosion protection
   - Global standards and practices for proving the safety
   - Reduction of emissions
Committee Role:
The committee will focus on issues surrounding the delivery of natural gas to end-users and through the distribution networks.

Study Groups:
The Distribution Committee will organize three study groups that will focus on the following:

1. Provision of natural gas supplies to customers in more isolated areas through distribution networks using LNG and CNG.
2. How distribution companies can facilitate the creation of new markets through creating efficient gas grids.
3. Promoting operational excellence in all distribution activities with an emphasis on promoting best practices, technologies and regulations that would allow utilization of gas distribution networks to facilitate renewable energy integration.
Utilization Committee

CHAIR
Mohammed Reza Ghodsizadeh
Iran

VICE CHAIR
Marcisco Prieto Cabajo
Spain

COMMITTEE ROLE:
The Utilization Committee work will focus on issues related to the utilization of
gas in residential, commercial and industrial markets and the use of natural gas
as a land and marine transportation fuel.

STUDY GROUPS AND SUB-TASK FORCES:
The committee will organize three study groups and two sub-task forces that
will focus on the following:

1. Industrial Utilization
2. Domestic and Commercial Utilization
3. NGV/LNG as a Transportation Fuel
Committee Role:
The Sustainability Committee conducts studies and analysis in support of efforts to demonstrate that natural gas plays an important role in the world’s future sustainable energy mix, for the public acceptance of unconventional gas supplies, and by promoting natural gas as a partner of renewables.

Study Groups:
There will be three study groups focusing on the following topics:

1. Stakeholders Engagement - Success Stories and Best Practices
2. Environmental Aspects of Unconventional Gas
3. Natural Gas and Renewables
**COMMITTEE ROLE:**
The committee will focus on issues related to accessing and transporting new gas supplies such as long-term market development, gas pricing policies and best practices in governance and regulation. Of special interest will be gas resource development in the Arctic.

The Strategy Committee also produces the Wholesale Price Survey- a report that provides an understanding of natural gas pricing mechanisms and worldwide wholesale gas price formation trends in gas traded internationally and for gas produced and consumed in country. The survey covers 65 countries representing 93% of world gas consumption.

**STUDY GROUPS:**
The committee will organize three study groups focusing on the following topics:

1. Long term gas market study
2. Gas pricing
3. Best practices in governance and regulation
Gas Markets Committee

**CHAIR**
Réda Bouchair  
Algeria

**VICE CHAIR**
Zhaoya Liu  
China

**COMMITTEE ROLE:**  
The role of the Gas Markets Committee is to analyze and report how to position natural gas as a primary fuel source in the future global energy mix, advance discussions on a regional basis to overcome barriers for the gas industry, and analyze the security of gas supplies in terms of sources (LNG, gas pipelines) as compared with other energy sources.

**STUDY GROUPS:**  
The committee will operate three study groups:

1. The role of gas markets (demand) as a driver for the development of new sources of supply
2. Newly emerging gas markets-Latin America, Middle East, South East Asia.
3. Principal new sources of gas (biogas, methane hydrates) and their possible impact on global energy markets.
COMMITTEE ROLE:
The role of the LNG Committee is to monitor the activities of the LNG industry in the areas of market trends and technology developments and promote the expansion of the LNG business.

STUDY GROUPS AND SUB-TASK FORCE:
The committee will organize three study groups and one sub-task force that will focus on the following:

1. Floating LNG Technologies
2. Competitiveness (Liquidity) of LNG in the energy market.
3. Enhancing LNG facility functionality and capabilities

Sub-Task Force: The IGU World LNG Report
The committee produces the annual IGU World LNG Report. This report provides a comprehensive overview of LNG market developments that includes imports, exports and pricing, liquefaction plants, LNG carriers, and LNG receiving terminals. The 2014 report included a special report on the small-scale LN value chain.
**COMMITTEE ROLE:**
The role of the Marketing and Communication Committee is to challenge the gas industry with new methods to successfully market gas, including recommendations on potential strategic affiliations, how to reach stakeholders through new conversations and how new marketing and communication methods can be used.

The committee will work closely with the Strategic Communications and Outreach Task Force supporting the efforts to establish the IGU as the global voice of gas.

**STUDY GROUPS:**

1. **A Natural Partnership: Gas and Clean Air.** This group will look at examples of where gas has improved quality of life, campaigns that successfully marketed the impact of gas to cleaner air in mega-cities and explore potential affiliations with organizations that have an interest in improving quality life through cleaner air.

2. **Social License NXT: Building Common Ground Through Conversation.** This Group will focus on how the gas industry can improve public image and acceptance.

3. **Successful Gas Marketing- What Is Next?** This group will look at new conversations for the successful marketing of natural gas through the promotion of innovation and the use of social media and new marketing methods.
COMMITTEE ROLE:
The key role of the R&D and Innovation Committee is to support the organization of the 2017 International Gas Research Conference by encouraging input from R&D institutes and researchers and creating and executing the conference program.

The R&D and Innovation Committee will promote exchange and collaboration in global natural gas research, technology transfer, and emerging technology and innovation that is occurring across the entire natural gas value chain the natural gas industry is experiencing. The Committee will catalyze the international exchange and improve “time to market” of new natural gas-based energy concepts and technology solutions.

STUDY GROUPS AND SUB-TASK FORCES:
The committee will organize three study groups and two sub-task forces that will focus on the following:

1. Research Radar
   This group will focus on the identification of current R&D topics along the gas chain. The group will work with all relevant working groups including exploration and production, storage, transport, distribution and utilization.

2. Supporting Natural Gas Marketing Through Innovations
   This group will select examples of technologies that improve the general acceptance for natural gas as a fuel including the following:
   • Power to gas and convergence of energy systems
   • Efficiency increases through advanced technologies
   • Gases from renewables (biogas, hydrogen) and carbon management

3. Gas Driven Mobility
   This group will examine the potential of natural gas as a transportation fuel. The focus will be on innovative technology using LNG or hydrogen or hythane. This includes non-road vehicles such as ships, train engines and airplanes, and the related business models in logistics.

Sub-Task Forces:

1. Renewables, CO2 Emissions and Hydrogen
2. Gas Quality
**TASK FORCES**

**Strategic Communication and Outreach Task Force**

**CHAIR**
Mel Ydreos  
USA

**VICE CHAIR**
Ieda Gomes  
Brazil

**COMMITTEE ROLE:**
The Strategic Communications and Outreach Task Force will support the IGU leadership in developing a communication and advocacy plan to promote natural gas as a key component of the world’s energy mix. The committee will develop a strategic triennium calendar identifying the key events and opportunities for greater and more impactful advocacy and engagement with key strategic partners and decision makers. Deliverables from the task force will include a Global Gas Playbook, development of policy positions on key strategic areas of focus and the development of an annual communication strategy.
COMMITTEE ROLE:
The Work Force Development Task Force will build on the work accomplished by the Human Resources Task Forces that were established in the Malaysian and French Presidencies. The aim of the task force will be to implement many of the recommendations contained in the previous work. The task force will focus on the three areas of attracting new talent to the industry, enhancing the existing workforce and finally assisting in competence transfer to areas seeking to introduce natural gas into their energy mix. The task force will be accountable for developing the Young Professionals program related to the WGC.