

News from the Secretariat

The IGU Secretariat's main activities since the last edition of the IGU Magazine (April 2009) are detailed below in news items and information from the Secretary General (TI), Senior Advisor (HR), Advisor, Press Contact and Webmaster (EG) and the Assistants to the Secretary General (FD and JVD).

● Presence in Buenos Aires during WGC 2009

During the 24th World Gas Conference (WGC) in Buenos Aires, the Secretariat will have a joint stand with the WGC 2012 National Organising Committee.

In this way the promotion of IGU and WGC 2012 in Kuala Lumpur will have greater visibility and be more strongly tied together. The 84 m² booth (M30) will be located adjacent to the main entrance of the La Rural exhibition hall. The Secretariat would be happy to meet you on our stand to discuss IGU matters. The following new publications will also be available for distribution in Buenos Aires:

- Triennial Work Programme 2009-2012;

- IGU Organisation Chart 2009-2012;
- IGU General Brochure;
- Climate Brochure;
- IGU Gas Efficiency Award 2008/2009 and IGU Social Gas Award; and
- Updated Guiding Principles for Sustainable Development.

Please come and see us in Buenos Aires.

EG/FD

● Executive Committee meeting June 4

The spring meeting of the Executive Committee (EXC) took place in London, UK, and was hosted by the Institute of Gas Managers and Engineers (IGEM) just after IGU's anniversary. The first statutes of IGU were approved on June 2, 1931 in London.

More than 120 people including accompanying persons attended the many meetings and social events organised by our host. The unusually large number of delegates was a result of the many other IGU meetings that were organised before and after the EXC.

The EXC approved the Chair and Vice Chair positions of the IGU Committees and Task Forces for the 2009-2012 Triennium. The EXC also approved the 2009-2012 Triennial Work Programme. The Malaysian Presidency will present the new work programme to the Council in



Torstein Indrebø, Secretary General.



Hans Riddervold, Senior Advisor.



Erik Gonder, Advisor, Press Contact and Webmaster.

BELOW

A rendering of the stand designed for the 24th WGC.



Buenos Aires and to the delegates of the World Gas Conference on the last day of the conference. The IGU Presidency will be transferred from Argentina to Malaysia on the same day.

The EXC discussed and endorsed changes in the structure of IGU that will be presented to the Council for approval in Buenos Aires. The most important were:

- Introduction of Regional Coordinators;
- Increasing the representation of Associate Members in the Executive Committee; and
- More focus on gas and mitigation of climate change.



The President (CENTRE), Vice President (RIGHT) and Secretary General (LEFT) at the Executive Committee meeting in June.



Florijana Đedović, Assistant to the Secretary General.



Jeanet van Dellen, Assistant to the Secretary General.



Åse Nicolaysen, Administration Assistant.

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The Secretary General addressed IndoGAS 2009.

We are all very grateful to IGEM for their support and efforts to make this event a great success.

TI

● IGU Gas Efficiency Award and Social Gas Award

The winners of the Gas Efficiency Award and Social Gas Award will be announced during the Opening Ceremony of the 24th WGC.

The Gas Efficiency Award was launched last year to encourage new ideas and projects aimed at obtaining greater efficiency in the use of gas. The best two projects in 2008 were each awarded a prize of €10,000 and they were profiled in the last edition of the IGU Magazine (see April 2009, pages 64-66).

New for 2009 is the IGU Social Gas Award. IGU has invited organisations from the public and private sectors such as authorities, educational and social institutions, professional associations and companies, to submit proposals for projects related to the promotion and support of gas-efficient behaviour.

IGU has published a booklet with abstracts of the proposals received for the IGU Gas Efficiency Award 2008/2009 and the IGU Social Gas Award. The booklet will be available at the 24th WGC, but can also be ordered from the IGU Secretariat.

FD

● GIIGNL has become affiliated to IGU

The Groupe International des Importateurs de Gaz Naturel Liquéfié (International Group of LNG Importers) is the latest organisation to become affiliated to IGU.

GIIGNL is a non-profit organisation whose main objective is to promote the development of activities related to LNG. To this end, GIIGNL aims to provide an overview of the state-of-the art technology in the LNG industry and its general economic state.

The agreement with GIIGNL was concluded by the Secretariat and signed by both parties on March 13.

Currently, the total number of affiliated organisations is 10.

JVD

● IGU at international events

Indonesia

The Indonesian Gas Association (IGA) organised the 4th International Indonesia Gas Conference and Exhibition (IndoGAS 2009) in Jakarta, January 19-22 with the theme "Maximising Indonesia's Gas Utilisation – From Opportunity to Rewards". IGU supported the conference and the Secretary General gave a presentation.

The visit to Jakarta gave the opportunity of meeting the IGA Chairman, Mr Anton Tjahjono, and key persons at Pertamina as well as the Minister of Energy and Mineral Resources.

Bosnia and Herzegovina

The 4th International Gas Conference of the Region of Southeast Europe took place in

Sarajevo, Bosnia and Herzegovina, February 11-13, and was themed "The Role of Natural Gas in the Region of Southeast Europe in the Coming Decade". Senior Advisor Hans Riddervold gave a presentation and participated in a debate broadcasted by national television. This well-visited conference, supported by IGU, was hosted by the Gas Association of Bosnia and Herzegovina.

The conference offered an excellent opportunity to promote IGU among Western Balkan countries. A main topic of discussion during the conference was the development of the regional pipeline system in order to enhance the region's security of supply.

World Energy Council

Ms Ieda Gomes, a member of the IGU Executive Committee, participated in the Future Energy Leaders workshop organised by WEC on March 6 in London, UK.

International Energy Agency

IGU actively participates in various international workshops organised by the International Energy Agency. At an IEA workshop on supply security in March, IGU was represented by Mr Bert Panman, Honorary Member of IGU.

IGU also participated in an IEA conference about human resources in April in Amsterdam, and was represented by the Vice Chair of the Coordination Committee, Mr Ho Sook Wah.

Iran

The Secretary General attended the 103rd Plenary Session of the IGU Marketing Committee (IGM), which was held in Tehran, April 9-10. The IGM session was hosted by the National Iranian Gas Company (NIGC), and the Secretary General used this opportunity to have a meeting with the Deputy Oil Minister and Managing Director of NIGC, HE Azizollah Ramezani, who confirmed continued active Iranian support for IGU and the Union's events. Iran as the second largest gas reserve holder in the world has strong ties with IGU and is



The Senior Advisor (FAR LEFT) and the Secretary General of Marcogaz, Daniel Hec (FAR RIGHT) at a press conference during the 4th International Gas Conference of the Region of Southeast Europe.

very active in IGU Technical Committees. Iran has ambitious plans for gas exports to Europe and Asia.

The Secretary General also took the opportunity of his visit to Iran to visit the South Pars Gas Company; the South Pars gas field is one of the largest in the world.

Qatar

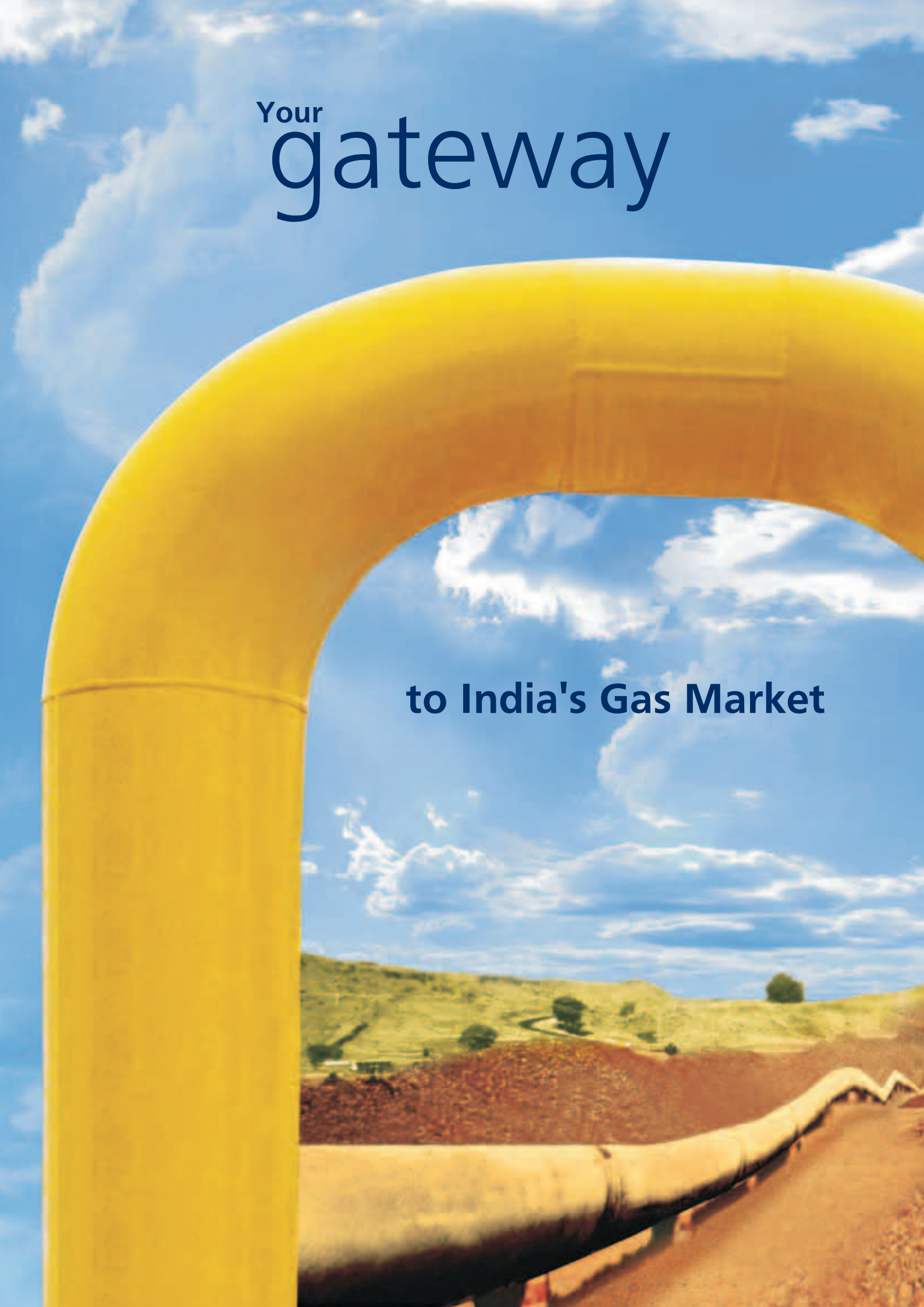
The International Energy Forum (IEF) organised a Symposium entitled "Tackling the Human Resources Crunch in the Petroleum Industry" in Doha, Qatar, April 13-14. The Vice President, Secretary General



The Secretary General with the Iranian Deputy Oil Minister and Managing Director of NIGC, HE Azizollah Ramezani (CENTRE) and Dr S. Pakseresht, Research & Technology Director of NIGC (LEFT).

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The Secretary General and Assistant to the Secretary General visited the South Pars Gas Company in April.



From left to right at the April meeting in Doha are: the Vice Chair of the Coordination Committee; the Secretary General; the Vice President; the CEO of Qatargas, Mr Al-Suwaidi; and the incoming Chair of PGC D, Mr Alaa Abujbara.

and Vice Chair of Coordination Committee attended the Symposium where the latter gave a presentation and took part in the panel debate afterwards.

The IGU delegation met the CEO of Qatargas, Mr Al-Suwaidi, and the incoming Chair of PGC D, Mr Alaa Abujbara, to discuss gas developments in Qatar and the future support of Qatar to IGU.

Croatia

The Croatian Gas Association and the Croatian Gas Centre hosted the 24th International Scientific Meeting of Gas Professionals in Opatia, May 6-8. The Secretary General gave a keynote address about Strategic Challenges Facing the Gas Industry towards 2030.

IGU is well known to the audience as a regular supporter of the conference, which is the main event for the Croatian gas industry and has many international participants.

Norway

The Norwegian Petroleum Society (NPF) organised the 15th European Gas Conference in Oslo with the theme "Gas in a Global Perspective", May 13-15, and the Secretary General gave a presentation. The conference gathered top executives and key personnel of major gas players in Europe to discuss developments and opportunities in the dynamic gas market.

Eurogas General Assembly

Antalya in Turkey was the venue of the Eurogas General Assembly on May 15. The President attended this event and gave an update from IGU. As Eurogas is a Charter Member of the Union, he informed the delegates about the latest important IGU events, such as the 1st IEF-IGU Ministerial Gas Forum, IGU Research Conference 2008 and World Gas Conference 2009.

Marcogaz General Assembly

The Senior Advisor attended the General Assembly of Marcogaz in Madrid, Spain on June 17 where



The Advisor addressed the Gas Day of the Russian Petroleum and Gas Congress.

he gave a presentation on the latest gas developments and important activities of IGU. Marcogaz is an IGU affiliated organisation and several of the IGU members are also active in Marcogaz.



The Secretary General with Ms Trine Ulla, then Chair of the Board of the Norwegian Gas Association, at the 15th European Gas Conference in Oslo.

Russia

For several years IGU has joined Gazprom in supporting the Gas Day of the Russian Petroleum and Gas Congress, which took place on June 25 in Moscow. The Secretary General chaired the



The President met the Turkish Minister of Energy and Natural Resources, HE Taner Yildiz (LEFT) during the Eurogas General Assembly in Antalya.



The Secretary General and Advisor visited the Russian State Duma in June (ABOVE) and met Mr Valery A. Yazev (BELOW) President of the Russian Gas Society and Deputy Chairman of the State Duma.

panel "The Oil and Gas Industry during a Period of Global Change" with speakers from Gazprom, Total, StatoilHydro and Shtokman Development AG.



In the second session of the Gas Day, which focused mainly on Russian gas and global energy security, Advisor Erik Gonder from the IGU Secretariat gave a presentation on the climate aspects of natural gas: "Natural Gas – the bridging fuel towards a low carbon society".

During both sessions, updates on major Russian Projects including Shtokman and Nord Stream were given by delegates.

FD

● Russian State Duma meeting

In connection with the conference in Russia the Secretary General and the Advisor took the opportunity to meet in the Russian State Duma with Mr Valery A. Yazev, the President of the Russian Gas Society. Mr Yazev is also Deputy Chairman of the State Duma.

IGU issues relevant for the Russian Gas Society as an Associate Member were discussed, and Mr Yazev stated that he was looking forward to being a speaker at the 24th WGC in Buenos Aires.

EG

● The IGU secondment programme

IGU launched the secondment programme in July 2006. The programme has been a success story for the seconded persons, for IGU and for the companies sponsoring the secondees.

What is the IGU secondment programme? Charter and Associate Members can second a younger employee with knowledge of and interest in the energy sector, for a one-to-two year period to the IGU Secretariat as part of career development. The work in the IGU Secretariat gives exposure to a worldwide gas organisation, allowing the seconded person to gain extensive knowledge of the gas industry, access to a global network of gas experts and companies, and the opportunity to prosper both professionally and culturally.

The seconded person will gain valuable experience from the work in an international and multicultural environment. The work assignments are very



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diverse and every day offers a new experience. Initially the tasks are researching data, learning about IGU as an organisation and becoming familiar with other energy organisations and companies to get closer to all aspects of the Union's work. The secondee is active in the Secretariat's promotional activities through the preparation of materials for exhibitions, promoting IGU on the stands and distributing IGU publications. Over time the scope of responsibilities widens, with tasks such as writing speeches, dealing with members, budgeting, recruiting new members, preparing the IGU marketing plan and actively participating in the overall IGU activities.

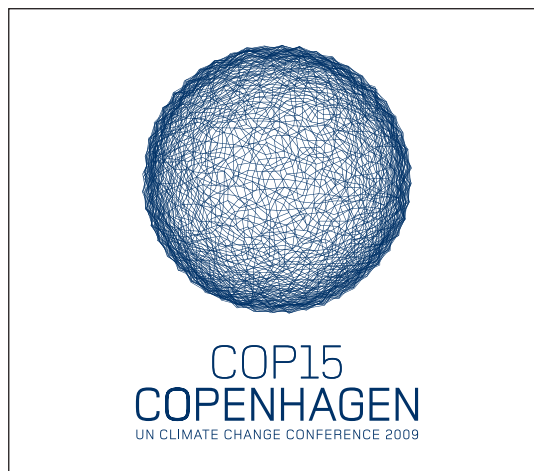
As experience is gained during the secondment, the challenges increase as the secondees become responsible for their own projects and have to deal with members and major gas players. Some of the projects are designing the IGU website, organising conferences and managing awards. It is a great opportunity for a young person to work at the heart of the gas industry at a very dynamic time for the energy world. The opportunity to gain insight into all parts of the gas industry (upstream, midstream, downstream, LNG) and learn directly from gas experts is invaluable. A small, but friendly and supporting team at the Secretariat supervises the secondees while living abroad. This can be confirmed by secondees from Germany, Croatia and The Netherlands.

IGU welcomes the nomination for a vacancy starting in January 2010. Do not miss this fascinating opportunity to work at the heart of the gas industry and to meet the IGU community.

FD/JVD

● **COP 15 in Copenhagen, Denmark**

IGU will have a stand at the 15th meeting of the Conference of the Parties (COP) to the United Nations Framework Convention on Climate Change (UNFCCC), which will be held in



For more information on COP 15 visit www.cop15.org.

Copenhagen, December 7-18, and a special IGU gas event is also planned.

By focusing on important short- and long-term aspects of the use of natural gas towards a sustainable energy future, IGU will make COP 15 delegates and decision-makers aware of the role that natural gas can play in a future low carbon society. The gas industry wants to take an active part in the development of the solutions and to create arenas for dialogue.

The IGU gas event on December 13 will gather representatives from the various delegations to COP 15 in Copenhagen. Also leading key players in the energy industry will provide the audience with recent developments within areas where natural gas can make a difference. Dong Energy will be the local partner of IGU in Copenhagen assisting in the organisation of the gas event.

EG

● **Preparations for the Malaysian Triennium**

A 2nd Incoming Coordination Committee meeting was held in June in London in connection with the Executive Committee session. A webmaster meeting was organised by the IGU webmaster for the incoming IGU committees, and a further one will take place during the 24th WGC. The Incoming CC Secretary, Ms Ungku Ainon Ungku Tahir, has

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already started to use the website actively. Meeting documentation from both meetings is to be found on the website (members log in required).

All IGU members have been invited to nominate representatives to the Working Committees, the Programme Committees and the Task Forces. They will start their work just after the 24th WGC.

EG

● 2nd IEF-IGU Ministerial Gas Forum

The 1st IEF-IGU Ministerial Gas Forum was held in Vienna, November 24, 2008, with more than 100 participants including ministers and delegates from gas producing and consuming countries, top executives from industry and senior officials from international organisations. Organised jointly by IEF and IGU, the Forum's theme was "The world

gas markets going from regional to global". (See pages 46-49 of the April edition of the IGU Magazine for a full report.)

At the event Qatar offered to host the 2nd IEF-IGU Ministerial Gas Forum, and it has now been decided that this will take place in November 2010, in Doha. Further details will be published on the IGU website.

HR

● IGU Strategic Statement 2009

A draft Strategic Statement 2009 has been prepared and was due to be released at presstime following approval by the Executive Committee. This year the Council will be informed electronically in order to enable use of the statement before the WGC.

TI

IGU STRATEGIC STATEMENT 2009

The outlook for the Global Energy Industry is balanced between the need to secure the supply of energy for a growing market – particularly in developing countries – and the commitment to mitigate the effects of climate change arising from the intensive use of fossil fuels.

With the goal of developing a sustainable energy system, governments have focused their energy policies towards the promotion of renewable energies with the long-term objective of developing them as the supply base for the future. Currently, however, owing to a number of political, technical and market related reasons, the expected period over which a full transition to renewable energy will occur is long. There will therefore be a considerable period during which a combination of renewables with fossil energy supplies will be needed.

Natural gas is the cleanest, most efficient and versatile of the fossil fuels, making it a unique choice to complement renewable energies in the path towards a sustainable future. Other technology developments such as

those enabling the capture and sequestration of CO₂ also support the choice of natural gas.

Given this outlook the world gas industry must be proactive in promoting energy developments particularly in:

- improving efficiency and best practices;
- the reduction of greenhouse gas emissions; and
- the development of systems that will optimise the use of renewables.

In line with its Mission IGU will continue to promote the exchange of know-how within the industry catalysing the development of new technologies in these areas. IGU will also continue to act as an effective interface between industry and governments promoting the advantages of natural gas in the transitional energy mix. In addition, IGU will continue to monitor carefully the future development of government energy policy and public opinion, enabling the global gas industry to anticipate and prepare for both threats and opportunities in the decades to come.

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From IGM to PGC E: The IGU Marketing Committee

By Marc Hall

The 103rd session of the IGU Marketing Committee (IGM), formerly Intergas Marketing, was hosted by the National Iranian Gas Company (NIGC) on April 9-10, 2009. The meeting took place in the Iranian capital, Tehran, and delegates were also invited to visit the impressive technical facilities of the South Pars gas production facility in Assaluye in southern Iran. Post-meeting tours provided an opportunity to visit some of Iran's legendary sights such as Shiraz and Esfahan.

IGM is a forum for marketing experts from all over the world. During this Triennium around 30 professionals from 20 different countries have been regularly active in the Committee's work.

IGM has two Study Groups with Study Group M.1 dealing with natural gas and renewables using a marketing approach, and Study Group M.2 investigating how marketing can contribute to promoting natural gas in new areas and new technologies.

● Meeting report

During the two-day session in Tehran, the group discussed the concept of IGM's presentation at the 24th World Gas Conference. IGM will hold Strategic Panel 8 with the title "Marketing Natural Gas in a Demanding Environment". The session will take place on October 9, between 09:45 and 11:45.

The basic assumption for the session is that the image of natural gas as the fuel of choice is currently facing major challenges. Therefore natural gas is no longer a self-selling product. This trend will continue in the future unless the gas industry takes action and works on creating a positive image of gas. IGM's objective with this



IGM Chairman Marc Hall (LEFT) in conversation with HE Azizollah Ramezani, a Deputy Minister in the Ministry of Petroleum and Managing Director of NIGC (CENTRE) and IGU Secretary General Torstein Indrebø (RIGHT).

session is to highlight the enormous potential and numerous advantages of natural gas and provide examples of creative marketing.

During the meeting in Tehran the Committee discussed how to present the nine topics being dealt with during the session. The Strategic Panel is designed as a talk show with a moderator, keynote speaker and panellists. Furthermore, there will be different elements creating a real multimedia show such as an interactive media wall, several short movies and on-stage performances.

Both Study Groups are contributing with the findings of their triennial work to the Strategic Panel. SG M.1 has worked on the concept of "nine reasons why natural gas is the energy of the future", while SG M.2 has produced short promotional films showing promising gas appliances such as the mother-daughter CNG system (Iran), district cooling (Egypt) and micro cogeneration (The Netherlands).

● Future plans

For the forthcoming 2009-2012 Triennium, IGM will be fully integrated in the IGU Committee structure as the new Programme Committee E – Marketing. Marc Hall will keep his chair position with Roland Mett (Spain) as Vice Chair and Barbara Schmid (Germany) as Secretary of the Committee.

Any IGU member is invited to participate in PGC E's activities and its three Study groups:

SG 1 Natural Gas and Renewables

SG 2 Marketing Campaigns

SG 3 Image of Natural Gas

The first informal meeting will take place during the WGC in Buenos Aires. The date of the first official meeting has yet to be confirmed but it will take place in Munich, Germany, before the end of 2009.

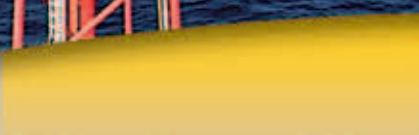
Marc Hall is the Chairman of the IGU Marketing Committee. For more information please contact him at Marc.Hall@bayerngas.de or Barbara Schmid at barbara.schmid@bayerngas.de.




IGM delegates pose for a group photograph at the NIGC headquarters in Tehran.

An aerial view of a tall, red and white offshore oil rig in the Persian Gulf. The rig has a long, thin structure with a platform at the top where a flare is visible. The water is a deep blue with some whitecaps. The text "Persian Gulf" is written in a large, blue, stylized font across the upper right portion of the image.

Persian Gulf

A curved graphic element consisting of a yellow rectangle on the left and a white rectangle on the right, separated by a thin vertical line.


Naturally One-of-a-Kind

A solid red horizontal bar.


Holding the World's 2nd Largest Gas Reserves

A solid red horizontal bar.

Exploiting the Giant South Pars Field

A solid red horizontal bar.

Unique Privilege of Pipeline/LNG Trade

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Iranian Gas Trunk Lines

Extension of Iranian Gas Trunk Line III

To supply natural gas demands in Northern regions of the country as well as Ardabil province, plan for extension of IGAT III, in the vicinity of cities Saveh/ Qazvin/Rasht with diameter of 56" and length of 237 kilometers, has been put high on the agenda of National Iranian Gas Company.

The construction operation of the pipeline is presently underway and 57 kilometers of the initial route has been injected with gas.

Iranian Gas Trunk Line IV

The Fourth Gas Trunk line is under construction to transmit portions of South Pars and Parsian Gas Treating plants output to the consumption areas by 110 million cm/d capacity and approximate length of 1145 and diameter of 56" beginning from South Pars Gas Treating plant to Savah compressor station.

The Fourth Gas Transmission Trunk line includes two construction sections with ten compressor station. This 798-kilometer pipeline was connected to the gas transmission network to Pol Kaleh compressor station in Esfahan in 2004.

To supply gas requirements of Fars province, the construction operations of the first section of the Fourth Trunk line with a length of 351 kilometers was performed with priority; the pipeline was completed and became operational in July 2004.

The second section of this line, starting from KP 351 (Shiraz extension), has been constructed up to KP 974 and extension of the pipeline up to Saveh for a length of 176 kilometers was completed in 2006.

There are five extensions which mainly were completed in 2006 as follows:

- A. Sarvestan – Shiraz 30" spurline.
- B. Kerman 42" spurline.
- C. Fars petrochemical 24" pipeline.
- D. Yazd 40" second pipeline.
- E. Esfahan – Mobarakeh 40" spurline.

The installation operation of compressor stations is presently underway right on the schedule.

Iranian Gas Trunk Line V

The pipeline is planned to deliver gas production from phases 6, 7, 8 of South Pars reservoir for injection purposes to oil fields in Khoozestan Province.

The volume of sour gas delivery will be approximately 95 million cm/d from Assaluyeh to Agha Jari through a 56" pipeline with a length of 504 kilometers; the construction operation is at the final stage.

There will be 5 compressor stations to be installed along the pipeline route.

Some 15 million cm of sour gas is planned to be treated in the Fadjr-e-Jam gas treating plant and transmitted through main trunk lines.

In this respect, a 70 kilometer pipeline with diameter of 42" extending from IGAT V has been considered to transmit sour gas to the above mentioned treating plant which is presently ready for gas injection.

The construction of independent communication system and also maintenance and operations yards for pipelines and aforementioned compressor stations are underway.

Iranian Gas Trunk Line VI

The construction of Iranian Gas Trunk line VI (IGAT – 6) has been considered to supply gas requirements of Bushehr and Khoozestan provinces and gas injection to oil wells in the Southern areas of the country.

The Length of the pipeline is 625 kilometers and the diameter 56" with gas supply from South Pars.

The general route of the pipeline will be in parallel to IGAT-5 with operating pressure of 1305 psi and transmission capacity of approximately 95 million cm/d, utilizing five compressors stations en route that will be installed according to the gas consumption rate.

Pipeline construction operation has been concluded and is ready for gas injection.

Iranian Gas Trunk Line VII

(The Sistan and Baluchestan Gas Transmission Pipeline)

The intention for construction of this pipeline is transmission of gas requirements of Sistan and Baluchestan provinces and gas exports to Pakistan and India (if negotiations are finalized and after conclusion of the contract) through gas production of South Pars and kish reservoirs.

The source of project is South Pars reservoir in the Bushehr Province and its destination in the first stage is the city of Iranshahr in the Sistan and Baluchestan Province.

The approximate length of pipeline from initial point to the city of Iranshahr is 902 kilometers.

In a bid to find the route to implement the project, satellite pictures and digitized topographical and geological maps have been applied while all dominant factors for route selection and technical regulations as well as rights of way for design purposes have been also taken into considerations.



The selected route has been surveyed in several stages through air and ground and certain modifications have been made, if necessary.

Nearly all route preparation measures have been made and pipeline construction operation has been initiated in 10 segments and up to the present time almost 30% of the pipe laying activities have been accomplished.

The construction of this transmission pipeline could provide a leading role in the industrial development of Hormozgan and Sistan and Baluchestan Provinces.

Iranian Gas Trunk Line VIII

In regard to the estimated increasing gas demands of the country, the study of Iranian Gas Trunk line VIII (IGAT – 8) has been concluded by the planning Directorate in the framework of country's Total Gas Transmission System Requirements study during 2005 – 2009.

According to this report in year 2006, in addition to the thorough utilization of IGAT-4, it was necessary to utilize a section of IGAT-8 (between Parsian Gas Treating plant to the city of Naïen) for the transmission of South Pars new phase productions and Parsian Gas Treating plant productions. 125 kilometers of this pipeline was put under operation in late 2006.

In the framework of this study, the transmission pipeline should have become fully operational in 2008 connecting to Tehran's Fifth pipeline with compressor stations successively becoming operational by 2010.

The pipe diameter of IGAT-8 is 56"; the line has a total length of 1050 kilometers (from South Pars to Parsian and in the vicinity of cities Safa Shahr, Naïen and connection to Tehran's Fifth pipeline) and operating pressure of 1305 psi. There will be 10 compressor stations to be installed en route the pipeline with sum of 1.8 million horse power.

It is worth mentioning that the current pipeline construction operation running from Parsian to Abarkooh is undergoing final stages and some segments also have been already injected with gas in 2006.

The construction of Abarkooh / Naïen section is also underway.

Iranian Gas Trend line IX

IGAT IX has been designed for partial supply of gas demands in Western and Northwestern regions of the country and also natural gas exports through the Bazargan border with total transmission capacity of 110 million cm³/ d.

The pipeline diameter is 56" for a length of 1900 kilometers extending along the cities of Assaluyeh / Ahwaz / Kermanshah / Miandoab / Bazargan.

A number of 17 compressor stations shall be installed en route the pipeline, given domestic gas consumption raise and export plans.

The pipeline is presently at the stage of detailed designing.

The Second North-Eastern Transmission Pipeline

In regard to gas consumption growth in Northern and Eastern regions of the Country and in respect to delivery of natural gas to several cities in provinces of Semnan and Southern Khorasan and to reinforce the gas transmission system of provinces Golestan, Mazandaran and Northern Khorasan, the Second North and North Eastern pipeline of the country with a diameter of 48" and length of 790 kilometers has been designed between cities Parchin and Sangbast with diameter of 42" and length of 105 kilometers between cities of Miami and Dasht-e-Shad .

Six compressor stations have been planned to be installed en route the pipeline which will successively become operational according to growth of gas consumption in the above mentioned regions.

The gas supply of this pipeline will be delivered from South Pars reservoir through IGAT-8.

The segment between the cities of Semnan / Shahrud is presently undergoing final stages of construction.

The Third North-Western Pipeline

In regard to gas consumption growth in recent years in the Western and North Western regions of the country, The Third North Western pipeline is being designed and constructed for the delivery of gas to the provinces of Hamadan, Kordestan, Zanjan, Western and Eastern Azerbaijan.

This pipeline beginning from the Saveh compressor station with a diameter of 48" and length of 280 kilometers extends to the city of Bijar and from Bijar to the city of Miandoab with a diameter of 40" and length of 190 kilometers.

Three compressor stations have been planned to be constructed en route the pipeline during the Fourth Development plan as gas consumption in the Western and North Western provinces of the country began to increase.

For now, construction operation of 80% of total pipeline length has been concluded.



IGU's Gas Efficiency and Social Gas Awards

By **Florijana Đedović**

IGU considers energy efficiency and conservation to be some of the more important ways of achieving a more sustainable future and enhanced security of supply, and launched the IGU Efficiency Award in 2008 under the motto "Conservation and efficiency are the cheapest forms of new energy".

This year the Efficiency Award has been joined by the IGU Social Gas Award under the motto "Encouraging Gas Efficient Behaviour".

The guidelines and invitation to submit proposals for the IGU Gas Efficiency Award 2009 and the IGU Social Gas Award were sent out to all IGU members at the end of 2008. The guidelines for the two awards were also presented in the IGU Magazine and on the IGU website.

The Evaluation Committee for both awards comprised: the President, the Coordination Committee Chairman and the Secretary General of IGU; the Executive Director of the IEA, Nobuo Tanaka; and Prof. Dr-Ing. Rainer Reimert of the Engler-Bunte-Institut, Universität Karlsruhe, Germany.

The submission deadline for the awards was the end of April 2009.

● IGU Gas Efficiency Award 2008/2009

The winner of the very best project from all those submitted in 2008 and 2009 has been invited to the 24th World Gas Conference in Buenos Aires and will receive a free registration for the conference as well as travel and accommodation expenses. The winner is the Dutch-German Project "A New Generation of Gas-fired Heat Pumps", author Paul Vloon. The article about this project was published in the April 2009 edition of the IGU Magazine (see pages 64-66). The winner will be formally announced at the WGC 2009 opening ceremony on October 5.

We congratulate Mr Vloon for this remarkable achievement and wish him luck in his future projects.

● IGU Social Gas Award

IGU has established the Social Gas Award to call for ideas and projects aimed at getting people to use gas more efficiently. IGU intends by this award to:

- Showcase IGU as a socially responsible organisation in generating ideas and proposals for improved gas-efficient behaviour;
- Strengthen its ties to the private and public sector; and
- Increase IGU's perception as an organisation concerned about sustainability.

The Evaluation Committee has decided that the first winner of the IGU Social Gas Award is the Iranian project "Freely Caulking the Houses of Natural Gas Consumers in Mazandaran Province – Iran", author Mohammad Rezaei from Mazandaran Gas Company, in cooperation with Mazandaran Construction Engineering Organisation.

Project abstract

Home insulation is rare in most provinces of Iran and especially in Mazandaran, which has a piped gas supply to 35 cities and 900 villages serving 710,000 residential units. Experiments have shown that a high amount of energy is lost through windows, doors and cracks. But most people do not pay attention to this important problem. With simple insulation, the following results can be obtained:

- A reduction in gas consumption and conservation of resources;
- An improvement in the well-being of families and in economic development; and
- A reduction in air pollution.

Mazandaran is a temperate province with five cold months. Based on the statistics of the Mazandaran Gas Company's programming and control department, the average rate of gas consumption of a family of four people in winter is 22 m³ per day. Over five months this totals 3300 m³ (see Table 1).

GAS CONSUMPTION IN MAZANDARAN

Average daily gas consumption per family in cold months (m ³)	Average number of cold days in a year	Average thermal value of 1 m ³ natural gas (kcal)	Heating instrument output efficiency (maximum)	Consumed thermal energy of a family in the five cold months (kcal)
22	150	9000	40%	11,880,000

LEFT
Table 1.

Based on an authoritative university experiment in 2004, insulating homes by caulking them could reduce gas consumption by 4.7%. This amounts to 155 m³ per home and a total of 110 million m³ for the 710,000 residential units in Mazandaran over the winter period. (Extrapolating the reduction to Iran as a whole would give an annual saving of 2 billion m³.)

At a value of \$0.11 per m³, the financial saving in Mazandaran would be \$12.1 million. The caulking costs of a typical two-bed apartment are \$10, giving a total of \$7.1 million for the province, and thus the net benefit in the first year would be \$5 million. The work would take six months.

There would also be a reduction in air pollution from burning less gas, including the saving of 196,000 tonnes of CO₂ based on emissions of 1.782 kg/m³. Furthermore, home insulation can produce savings in electricity used to cool houses in the summer.

Finally, it should be noted that up to 50% of energy losses could be avoided with a more comprehensive application of insulation to walls, roofs and floors, together with double glazed windows and a new central heating and hot water system. However, the much

greater expense of such an undertaking rules it out for many residential units at the moment.

● Booklet

The abstracts of the winning projects and some other proposals have been published in the booklet "IGU Gas Efficiency Award 2008/2009 and IGU Social Gas Award". The booklet will be handed out at the 24th WGC in Buenos Aires, but can be also ordered from the IGU Secretariat.

Florijana Đedović is Assistant to the Secretary General.



Iran has the world's second largest gas reserves – home insulation would help conserve them.



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