Remora fish and great whites. Bumblebees and fruit trees. Clownfish and anemone.

# Examples of win-win partnerships.

PETRONAS is Malaysia's integrated oil and gas corporation founded a little more than 30 years ago. Through partnerships with established players, we have enabled companies to explore and develop our oil and gas resources, and we have, in turn, benefitted by learning from these experts. This symbiosis allows us to grow and prosper together.

Today we are a multinational oil and gas corporation with a strong ranking on the FORTUNE Global 500<sup>®</sup> and operations in more than 30 countries worldwide. We have developed our own strengths and competencies to be able to venture out and offer more value to our own businesses and those of our partners.

#### Nature has a lot to teach us. Let's learn from each other.

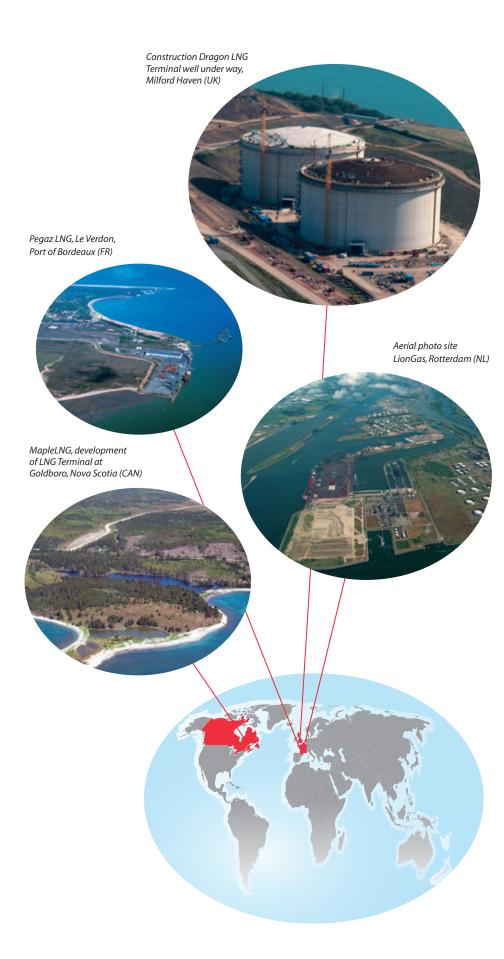
\*FORTUNE Global 500 is a registered trademark of the FORTUNE magazine division of Time Inc.





## **PETRONAS** Your Preferred Gas Partner

As an established oil and gas multinational ranked on the FORTUNE Global 500<sup>®</sup>, it comes as no surprise that PETRONAS is an integrated global gas player, with activities covering the entire gas value chain. We are involved in exploration and production of natural gas resources to gas processing and liquefaction, transmission pipeline network operations, marketing and trading, LNG shipping, gas district cooling and supply of industrial utilities. We continue to expand our capabilities and markets in each segment and build upon partnerships we have cemented over the years.



## **Dedicated to LNG**

4Gas is an independent company dedicated to developing and operating LNG import terminals around the world. 4Gas is the world's only

independent

Maple LNG-terminaling company

with a global reach. Our objective is to establish a global terminal network that will play a crucial role in fulfilling the increasing needs of countries and companies for access to

natural gas. We developed Dragon LNG in Wales which will

enter service in 2007. 4Gas has received the **Environmental Permit** for LionGas in Rotterdam

and is currently



permitting the proposed MapleLNG terminal in Goldboro, Nova Scotia and Pegaz LNG In Bordeaux, France. 4Gas is dedicated to LNG. www.4gas.com



## International Gas APRIL 2008 The IGU Magazine

## Published by International Systems and Communications Limited (ISC) in conjunction with the International Gas Union (IGU).

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#### Vision, Mission and Objectives

The International Gas Union (IGU) is a worldwide, non-profit organisation promoting the progress of the gas industry. Through its many member countries representing approximately 95% of global gas sales, IGU covers all aspects of the natural gas industry.

#### The Vision

Recognising that natural gas has an important part to play in satisfying the global need for an environment-friendly energy source, IGU will be the most influential, effective and independent non-profit organisation, while serving as the spokesman for the gas industry worldwide.

#### The Mission

IGU will actively, directly and through its members, promote the technical and economic progress of the global gas industry.

IGU will work towards improving the competitiveness of gas in the world energy markets. By promoting the development and application of new technologies and best practices, IGU will help optimise the economics of the entire gas chain, while emphasising sound environmental performance, safety and reliability.

IGU – serving as a global information clearing house – will promote transfer of technology and know-how.

In carrying out this mission, IGU will maximise value to its members and gas customers.

#### Objectives

In striving towards the vision and fulfilling the mission, IGU will regarding:

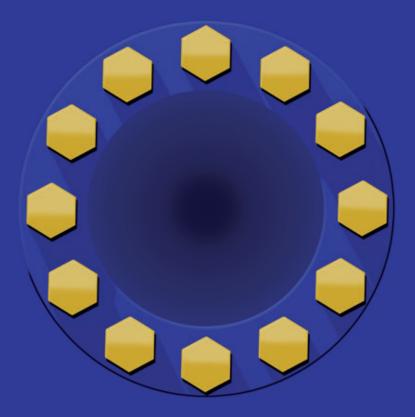
ECONOMY: Promote all activities within the entire gas chain, which can add to the technical and economic progress of gas; CUSTOMERS: Encourage development of good customer services and customer relations; TECHNOLOGY: Encourage research and development towards new and better technologies for the gas community; SAFETY: Promote the safe production, transmission, distribution and utilisation of gas;

ENVIRONMENT: Encourage and promote development of clean technology, renewable energy applications and other activities, which will add to the environmental benefits of gas; INTERNATIONAL GAS TRADE: Encourage international trade in gas by supporting nondiscriminatory policies and sound contracting principles and practices;

LEGAL: Promote and contribute to the development of legislation concerning:

- the establishment of equitable, nondiscriminatory and reasonable environmental and energy efficiency regulations, and
- efforts to establish appropriate and relevant international standards, as well as
- the promotion of and participation in the exchange of information relating to regulatory processes;

COOPERATION: Enhance partnership with industry and manufacturers, and cooperation with governments, policy makers and international energy related organisations, and promote the exchange of information among members in order to help them in improving the efficiency and safety of gas operations.



## Gasunie, the gas roundabout of NW Europe

Gasunie is one of the largest gas transporters in Europe. As the manager of the Dutch gas transport grid, our company continues to offer and expand its services. To secure continued deliveries in the future, expanding of the gas transport grid and realising connections to new gas sources are essential. The strategic location of grid, the geological conditions, the know-how and expertise are strong trumps to turn Gasunie into Europe's key roundabout for natural gas. For more information please visit our website: www.gasunie.nl



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Unless otherwise stated, the dollar (\$) values given in this magazine refer to the US dollar.

## **BG Group**

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g

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### **Message from the President**

#### Increasing Value for our Membership and Society

#### Dear Colleagues

In Argentina we often employ comparisons between football and daily life, and if you would allow me to indulge in one of these, the IGU meetings held in St Petersburg in October 2007 could aptly symbolise the halftime whistle blow of the 2006-2009 match.

Halftime: A time for coach and players to pause, to look back, to evaluate, to decide, and to move forward with renewed vigour.

During the last Council meeting in St Petersburg we could confirm that the *team* is in very good shape with a new record – at October 2007 – of 731 members from all over the world joining in the work of the technical committees. You may read about the latest developments in the Triennial Work Programme (TWP) in the Progress Report.

We continue to provide a preview of some of the deliverables you can expect at the next World Gas Conference in Buenos Aires. One of the Strategic Guidelines of the TWP is Gas Market Integration and the Task Force on Gas Market Integration presents one of its case studies, looking at the energy partnership between Germany and Russia. Programme Committee D reviews LNG quality and interchangeability issues, while Programme Committee B (Strategy, Economics and Regulation) reports on its visit to Washington DC and the valuable interaction with diverse players in a mature market like the US one, particularly in the area of regulation.

Additionally you will find reports from the new IGU *players*: IGU Gas Marketing (IGM), who have consolidated their team to work on two interesting angles related to the marketing of natural gas, and IGU Research Conference (IGRC), who are in the final run-up to IGRC 2008 which will take place in Paris in October. And, as usual, we have an interesting range of gas-related articles in the feature section.

St Petersburg also provided the setting for the first Steering Committee meeting of the 2030 Natural Gas Industry Outlook study, an ambitious and comprehensive analysis of the gas industry for the next 25 years which we have mentioned in past issues of the magazine. This project is aligned to the first of the Strategic Guidelines of the 2006-2009 TWP, and the Steering Committee is composed of world-renowned analysts of the global energy community, who endorsed the general direction taken and provided inputs that will increase the value of this study.

The arrival of new members who have much to offer IGU, as well as the smooth handover from Denmark to Norway of a critical office like the Secretariat, provide further proof of the growing robustness and maturity of our Union.

Looking forward, and as one of the outcomes from our first meeting with the International Energy Agency (IEA) in November 2006, IGU has established a very promising liaison with the International Energy Forum (IEF), an organisation that gathers ministers from energy producing and consuming countries who meet every two years. In recent years they have complemented these meetings with forums that also involve CEOs of the leading energy companies around the world. As we went to press IGU and IEF were preparing for their first joint meeting on March 11, where strategic issues regarding the role of natural gas were set to be discussed. Furthermore, IGU has been awarded the privilege of participating in the IEF conference in Rome, Italy, April 20-22, to present the results of this meeting, which we hope will be established on a regular basis. We will be providing more information regarding this exciting development in future issues of the magazine, and we feel confident that the continuance of this constructive interaction will provide IGU with



powerful means to fulfil its vision of "becoming the most influential, effective and independent nonprofit organisation, while serving as the spokesman for the gas industry worldwide".

In this issue of the magazine you will also find the latest report from our National Organising Committee, which provides details on the preparations for the 24th World Gas Conference. We hope you will share our satisfaction on how the stadium that will stage this event is being assembled in Buenos Aires.

We are now ready for the second half.

neday

Ernesto López Anadón



Ernesto López Anadón, President.

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## Message from the Secretary General

#### Dear Reader

I am delighted to be addressing you for the first time as Secretary General and would like to begin by expressing my thanks for the many letters of support and greetings I have received following my election during the 2007 Council meeting in St Petersburg.

As most of you will know, the IGU Secretariat has been transferred from Denmark and Dong Energy to Norway and StatoilHydro, where operations began on November 1, 2007.

The new Secretariat, which is presented in this magazine, has an exciting task and many challenges coming up. We have a saying in Norway that it is hard to jump after Wirkola, our most famous ski jumper. Peter Storm is not a ski jumper as far as I know, but under his leadership the IGU Secretariat has been modernised with the most up-to-date management tools, and he has set very high standards for us to follow. To cope with these challenges we have increased the permanent staff from two to three people.

Electronic communication and video conference meetings have become a necessity for any modern organisation, and have made easy and quick communication across time zones and geographical borders possible. This has clearly extended the Secretariat's reach. Good and appropriate IT solutions have become the key to effective administration and management systems. In the past, for example, the IGU files that were transferred to Oslo on a single hard disc would have required a truck to carry their paper equivalents. We will seek to continue this line of effectiveness combined with a high level of service to members.

We are very thankful for the support given by Peter and Lotta during the critical transfer phase,



Torstein Indrebø, Secretary General.

and I am also pleased that they have been offering support and advice in the months following the move.

The Secretariat needs to work closely with IGU members, so I welcome comments or suggestions related to our activities. Do not hesitate to visit us if you are in the Oslo neighbourhood. We are located in the StatoilHydro offices in Sandvika just 10 minutes west of the city centre.

Our first priority now is to follow up the regular IGU business and the new initiatives already started. A most important event this year will take place during the Council meeting in Korea, when elections will be held to decide which Charter Member will hold the Presidency for the 2012-2015 Triennium and host the 26th World Gas Conference in 2015.

One of the new initiatives that will start up in 2008 is the IGU Gas Efficiency Award. I hope that members will nominate many candidates for the two prizes of €10,000 that will be awarded each year in 2008 and 2009. The IGU Gas



Efficiency Award is expected to bring forward a number of projects that will help reduce the emissions of greenhouse gases, and to help increase IGU's sustainability profile in the media.

The annual Strategic Statement is another new initiative aimed at addressing major topics for the gas industry, and the first will be issued by IGU at the end of this year. We hope this will contribute to enhancing awareness of natural gas issues among policymakers.

The gas industry is facing new realities as the gas and energy markets have moved even higher up on the political agenda both at national and supra-national levels. Key issues include:

- The impact on natural gas of a post-Kyoto agreement;
- The globalisation of gas markets;
- Long-term contracts and pricing of natural gas; and
- The investment climate for new gas infrastructure.

These and other issues are under study by our expert committees and will eventually be presented at the 24th WGC in Buenos Aires in 2009. In the meantime IGU must continue to be an active discussion partner in forums where these important topics for the industry are being addressed. The recently established framework of cooperation with the International Energy Forum (IEF) is a key element in the strategy to enhance IGU's profile among policymakers and their institutions. Together we will seek to establish a Forum for dialogue between gas producing and consuming countries, involving policymakers and industrial leaders.

In closing I would like to extend a special welcome to our new members whose applications were approved by the Council in St Petersburg. You will add to the reach of IGU and your expertise will be an important contribution to the Union's work. The Secretariat looks forward to working with you all, and I look forward to meeting old and new members on several occasions during 2008.

I hope you will enjoy reading this issue of the magazine.

J. huled

Torstein Indrebø



Cooperation with the IEF (whose 10th Ministerial in Doha is pictured) is a key element in the strategy to enhance IGU's profile among policymakers and their institutions. The IEF's 11th Ministerial and the 3rd International Energy Business Forum are due to take place in Rome, Italy, April 20-22.

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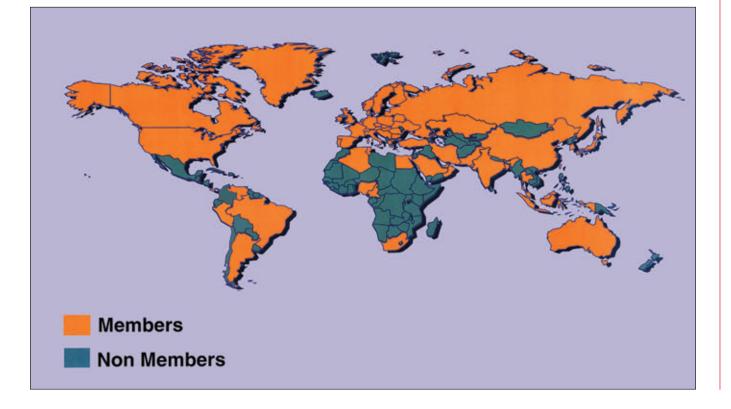
## **Countries Represented in IGU**

Algeria Argentina Australia Austria Bangladesh Belarus, Republic of Belgium Bosnia and Herzegovina Brazil Brunei Bulgaria Cameroon Canada China, People's Republic of Croatia Czech Republic Denmark

Egypt Estonia Finland France Germany Greece Hong Kong, China Hungary India Indonesia Iran Ireland Israel Italy Japan Kazakhstan Korea, Republic of

Latvia Lithuania Malaysia Monaco Netherlands, The Nigeria Norway Oman, Sultanate of Pakistan Peru Poland Portugal Qatar Romania Russia, Federation of Saudi Arabia Serbia

Singapore Slovak Republic Slovenia South Africa Spain Sweden Switzerland Taiwan, China Thailand Trinidad and Tobago Tunisia Turkey Ukraine **United Arab Emirates** United Kingdom United States of America Venezuela







#### Natural gas: the best basis

GasTerra is the biggest gas trading company in the EU with its own natural gas reserves. GasTerra contributes to security of supply on its home market of the Netherlands and throughout the EU. Based on the 1,000 billion or more m<sup>3</sup> of gas that constitute the Groningen field, the biggest gas field in the EU. And on the dozens of lesser onshore and offshore fields, which, though smaller than they once were, still contain huge reserves of gas and have a unique role and application. And based on evidence that there is still plenty of gas to be extracted from new small fields. Basis for what? For a supply of energy that is relatively clean. For a transition to renewables. For an income that can be invested in innovation and new economic activities. And for technology – at home, in the office and in the factory – that will help to conserve energy and attain CO<sub>2</sub> targets. **GasTerra: the name says it all.** 





#### CHARTER MEMBERS

#### Algeria

Association Algérienne de l'Industrie du Gaz – AIG

Argentina Instituto Argentino del Petróleo y del Gas

Australia Australian Gas Industry Trust c/o Energy Networks Association

Austria Österreichische Vereinigung für das Gas- und Wasserfach (ÖVGW)

Bangladesh Petrobangla (Bangladesh Oil, Gas & Mineral Corporation)

Belarus, Republic of Beltransgas

Belgium Association Royale des Gaziers Belges

Bosnia and Herzegovina Gas Association of Bosnia and Herzegovina

Brazil Associação Brasileira das Empresas Distribuidoras de Gás Canalizado (ABEGAS)

Brunei Brunei Energy Association

Bulgaria Overgas Inc.

Cameroon Société Nationale des Hydrocarbures

Canada Canadian Gas Association

China, People's Republic of China City Gas Society

Croatia Croatian Gas Association c/o INA-Naftaplin Czech Republic Czech Gas Association

Denmark Dansk Gas Forening – Danish Gas Association

Egypt Egyptian Gas Association

Estonia

Estonian Gas Association

Eurogas

Finland The Finnish Natural Gas Association

France Association Française du Gaz (AFG)

Germany Deutsche Vereinigung des Gasund Wasserfaches e.V. (DVGW)

Greece Public Gas Corporation of Greece (DEPA) S.A.

Hong Kong, China The Hong Kong & China Gas Co. Ltd

Hungary Association of Gas Distribution Companies

India Gas Authority of India Ltd (GAIL)

Indonesia

Indonesian Gas Association (IGA)

National Iranian Gas Company (NIGC)

Ireland Irish Gas Association – Bord Gais Eireann

Israel The Israel Institute of Petroleum &

Energy

Italy Comitato Italiano Gas (CIG)

Japan The Japan Gas Association

Kazakhstan KazTransGas

Korea, Republic of Korea Gas Union

Latvia JSC Latvijas Gāze

Lithuania Lithuanian Gas Association

Malaysia Malaysian Gas Association c/o Petronas

Monaco Société Monégasque de l'Électricité et du Gaz (SMEG)

Netherlands, The Koninklijke Vereniging van Gasfabrikanten in Nederland (KVGN)

Nigeria Nigerian Gas Association c/o Nigeria LNG Ltd

Norway Norwegian Petroleum Society (NPF) – Norwegian Gas Association

Oman, Sultanate of Oman LNG L.L.C.

Pakistan Petroleum Institute of Pakistan

Peru Perúpetro S.A.

Poland Polskie Zrzeszenie Inżynierów i Techników Sanitarnych (PZITS) – Polish Gas Association

Portugal GDP – Gás de Portugal, SGPS, S.A.

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Serbia Gas Association of Serbia

Singapore Power Gas Ltd

Slovak Republic Slovak Gas & Oil Association

Slovenia Geoplin

South Africa CEF Ltd Spain Spanish Gas Association – Asociación Española del Gas (SEDIGAS)

Sweden Svenska Gasföreningen – Swedish Gas Association

Switzerland Schweizerische Aktiengesellschaft für Erdgas (SWISSGAS)

Taiwan, China The Gas Association of the Republic of China, Taipei

Thailand PTT Public Company Ltd – Petroleum Authority of Thailand

Trinidad and Tobago The National Gas Company of Trinidad and Tobago Ltd Tunisia Association Tunisienne du Pétrole et du Gaz (ATPG) c/o ETAP

Turkey BOTAŞ

Ukraine Naftogaz of Ukraine NJSC

United Arab Emirates Abu Dhabi Liquefaction Company Ltd (ADGAS)

United Kingdom The Institution of Gas Engineers and Managers

United States of America American Gas Association

Venezuela Petróleos de Venezuela S.A. (PDVSA)



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China National Petroleum Corporation (China)	Petróleo Brasileiro S.A. – Petrobras (Brazil)	
ConocoPhillips Company (USA)	Russian Gas Society (Russia)	
DanaGas (UAE)	RWE Gas AG/RWE Energy (Germany)	
E.ON Ruhrgas AG (Germany)	Shell Gas & Power International B.V.	
GAZBİR – Natural Gas Distributors Association	(The Netherlands)	
(Turkey)	S.N.G.N. Romgaz S.A. (Romania)	
Gaz de France (France)	Société Suisse de l'Industrie du Gaz et des Eaux –	
IGDAŞ – Istanbul Gas Distribution Co. (Turkey)	SSIGE/SVGW (Switzerland)	
Indian Oil Corporation Ltd (India)	Suez S.A. (Belgium)	
Instituto Brasileiro de Petróleo e Gás (Brazil)	TBG – Transportadora Brasileira Gasoduto Bolívia- Brasil S/A (Brazil)	
Interstate Natural Gas Association of America (USA)	TOTAL S.A. (France)	
Taqa, Arab Company for Energy (Egypt)	Unión Fenosa Gas (Spain)	
Izgaz – Izmit Gaz Dagitim San. Ve Tic A.Ş. (Turkey)	Union of Independent Gas Producers (Russia)	
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International Gas Research Conference Foundation

Marcogaz

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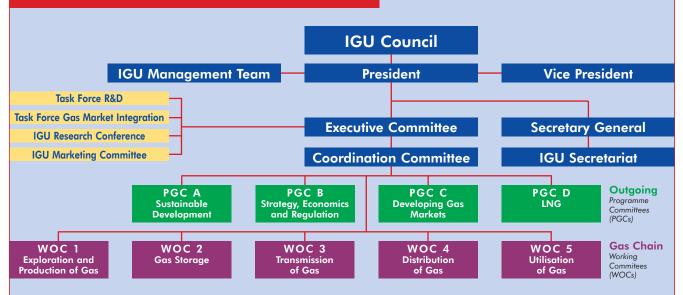
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## IGU Organisation





From left to right in this photograph taken at the Executive Committee meeting in Montreux, Switzerland, in May 2007 are: Otto Musilek, Wan Zulkiflee Wan Ariffin, David N. Parker, Datuk Abdul Rahim Haji Hashim, Robert J. Harris, Yves Tournié, Chawki M. Rahal, Hans Riddervold, leda Correia Gomes, Ernesto López Anadón, Peter K. Storm (who was then Secretary General), Klaus Homann, Peter I. Hinstrup, Kunihiro Mori, Hae-jung Oh, Daniel Paccoud, Roberto D. Brandt, Alexander I. Lipatov and Ho Sook Wah. George H. B. Verberg, Tomás Tichý, Antoni Peris Mingot, João Carlos de Luca and Domenico Dispenza could not attend.

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