International Gas october 2009 INTERNATIONAL GAS UNION

www.igu.org THE GUARD CHANGING THE GUARD GU Presidency passes from Argentina to Malaysia Argentina to Malaysia







Natural gas is becoming increasingly important in our daily lives. It is one of the cleanest, safest and most useful of all fossil fuels. As natural gas is an essential component of the world's supply of energy and as demand for it grows, a reliable supply is crucial.

At PETRONAS, we have developed distinctive strengths in our gas business, making us a trusted partner and reliable supplier of choice. Our proven capabilities in fully integrated liquefied natural gas (LNG) and gas processing and transmission pipeline network operations are among our strengths. Leveraging on our ability to ensure security of supply from our gas reserves and the full integration of our gas business, we are able to meet our customers' needs with a high level of reliability and flexibility.



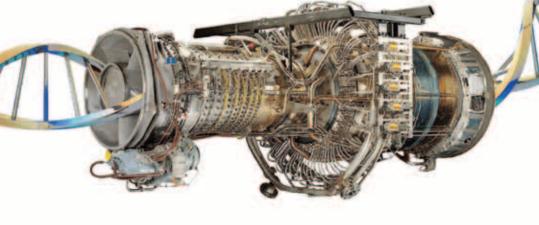
Efficiency: it's genetic

It starts with the right people and it ends with the right solution.

With over 40 years of experience, GE's Oil & Gas business is a recognized leader in turbocompression packages for large pipelines. A perfect example is the PGT25+G4 which was recently installed as the core unit driving 14 compressor stations across a 3,700-km North American mainline system. The PGT25+G4 is a two-stage, high-speed power turbine coupled with an enhanced gas generator using proven aeroderivative technology that achieves significantly higher efficiency and availability than non-aero alternatives. The unit offers 34-MW power output and 41% thermal efficiency – the highest in its class. At 6,100 RPM, it can directly drive a compressor without a gearbox in most oil and gas applications, and comes in both standard and dry-low emissions (DLE) versions.

Turbocompression efficiency – it's in our DNA.

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International Gas october 2009

The IGU Magazine

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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 non-discriminatory 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.



the eni award 09 ideas for a brighter future

Eni has always promoted advanced scientific research, rewarding the most innovative projects and discoveries in sustainable energy. The eni award is a prestigious prize awarded once a year to researchers who stand out internationally for their work on the new frontiers of hydrocarbons, unconventional renewable energies and environmental protection. To build a better future out of today's brightest ideas.

Under the High Patronage of the President of the Republic of Italy.





A natural gas partner.

BP is one of the world's largest and most experienced energy providers, and this year we celebrate our centenary. Working with our partners across the value chain we produce over 8bcfd of natural gas, and are developing new gas supplies in the Middle East, Africa, the Americas and Asia Pacific.

Expanding and investing in our global LNG business, BP is leading the new Tangguh liquefaction project in Indonesia. We are using our expertise to manage complex projects and supply chains, and are enhancing security and ensuring the flexibility our customers require.

We are an active marketer and trader in the world's most liquid markets – North America and the UK. We are also increasingly active in European and Asian markets.

Mutual advantage, experience and commercial innovation make BP a natural gas partner.





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The opinions and views expressed by the authors in this magazine are not necessarily those of IGU, its members or the publisher. While every care has been taken in the preparation of this magazine, they are not responsible for the authors' opinions or for any inaccuracies in the articles.

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

In the energy business, strong working partnerships are the key to success. At every stage, from gas exploration to distribution, we work closely with our partners. We share with them our technical expertise, employ local people, invest in their communities and work together to find the right markets to maximise the value of our partners' natural resources. Their potential. Our expertise. It's a partnership you can rely on.

A world leader in natural gas



BG Group. Turning partnerships into prosperity.





Message from the President

Natural gas, an enabler of solutions

Dear Colleagues

I am addressing you for the last time through this message, and therefore cannot avoid experiencing a slight tinge of nostalgia while writing these lines. However, the feeling is outweighed by one of satisfaction, for several reasons I would like to share with you in the following paragraphs.

In preparation to taking over for the 2006-2009 Triennium, we were faced with the challenge of deciding the most adequate focus on which to concentrate IGU's energies during the Argentine Presidency. Given the dynamic changes and trends affecting global society in general and the gas industry in particular, we opted for a strategic standpoint, which is clearly reflected in our Triennium's theme "The Global Energy Challenge: Reviewing the Strategies of Natural Gas".

Reviewing the events of these last three years, we are satisfied to conclude that the perspective assumed proved to be very fitting indeed.

And of course, we are very pleased with the technical programme we have prepared for you during the 24th World Gas Conference in Buenos Aires.

Many of the studies conducted by the IGU
Technical Committees as well as some of the
Special Projects embarked upon during this
Triennium have converged in a few key messages.
Some of these – which will be strongly highlighted
during the conference – are the following:

The world is facing two major – and opposing

 challenges: a growing demand for energy
 and the need to decisively curb the global
 warming effects associated with this demand.

 Natural gas is one of the key solution-enablers
 to address these challenges.

- To effectively set in motion a global-reaching gas expansion project an integrated approach is needed, both internally – between policymakers and the industry – as well as between the countries that can be naturally networked by a regional gas industry.
- The world gas industry needs to promote the notions of austerity and efficiency in the use of energy. We could sum it by saying: do it less, do it efficiently and do it with natural gas.

You can find a preview of the programme in the Progress Report of the Coordination Committee, which highlights the highly productive work recently concluded by the IGU technical teams. I wish to extend my sincere appreciation to the leaders and members of these groups for the commitment they have shown throughout the Triennium.

Further, you can read directly from Datuk Rahim Hashim, who will be leading IGU after the conference, that these messages are also included in the agenda for the next Triennium.

In its role as industry spokesman, IGU has released its new Strategic Statement for 2009 which is focused on the environmental angle of sustainability, and the role, responsibilities and challenges of the gas industry as regards this highly sensitive topic. A copy of the text approved by the Executive Committee is included in this issue's news section, and two articles in the feature section – about programmes to promote decentralised energy in China and residential fuel cells in Japan – provide evidence of the value our industry can offer on this front.

Asia is also the focus of two case studies in the continuing series of contributions from the Task Force on Gas Market Integration, while other features look at the major developments seen this year in the LNG chain and the challenges facing the pipeline sector.

In IGU we share a deep satisfaction in seeing how the organisation has grown. We are



delighted to welcome an article from the National Oil Corporation of Libya, which became a Charter Member last year, and hope we may continue to expand in the African continent which has significant gas potential.

I look forward to the opportunity of personally extending our welcome to you in Buenos Aires

during the celebration of the 24th World Gas Conference, without question the greatest satisfaction of all.

Ernesto López Anadón



Ernesto López Anadón, President.



NATURAL GAS & LNG



To supply different markets: residential, electric generation, industrial. To meet the safety and environmental standards.

YPF



Message from the Secretary General

Dear Reader

This edition of the Magazine will be available at the high point of the IGU cycle which is the World Gas Conference (WGC), this time taking place in Buenos Aires.

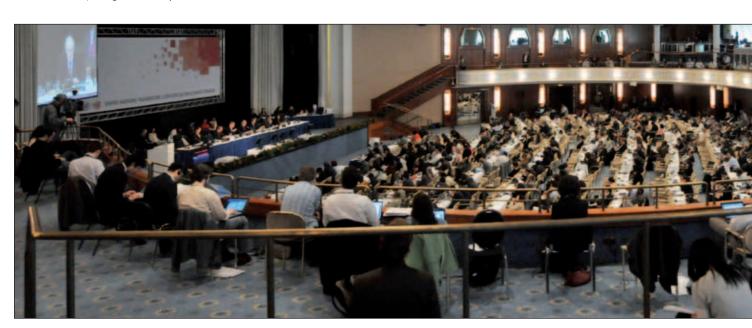
The WGC is the main arena for presenting and discussing the short- and long-term issues facing the gas industry. It also offers a unique opportunity to meet old friends and make new ones in the energy business.

A large number of experts from the IGU community will present the results and conclusions of the extensive study programme that has been carried out by the Committees and Task Forces during this Triennium. The reports will be made available to the gas community to further the technical, economic and strategic progress of the gas industry.



Torstein Indrebø, Secretary General.

The WGC also represents the transfer of the IGU Presidency from Argentina to Malaysia. IGU enters the 2009-2012 Triennium stronger than ever with an increasing number of members as



This is a crucial year in the international effort to address climate change – talks were held in June in Bonn to prepare for COP 15 at the end of the year

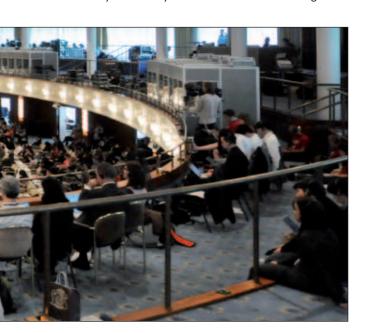


the industry is experiencing substantial changes and becoming more global. The transfer takes place at a time when the global economy and financial markets are experiencing a turmoil and volatility which have not been seen since the Great Depression of the 1930s.

The 2009-2012 Triennial Work Programme prepared by the new Presidency will address the challenges facing our industry in the years to come. These include in addition to the global economic downturn, mitigation of climate change, security of supply and demand, globalisation of the gas markets, and securing the human resources that are required to ensure further progress of the gas industry.

IGU will address the issues in several ways through study work, conferences and seminars, by creating meeting places within the IGU community and in cooperation with related institutions like the International Energy Agency, the International Energy Forum, United Nations and others.

We have all experienced increased focus on the risk of climate change and the need for sustainability in recent years. The efforts to reduce green-





Held every three years (the picture shows delegates registering for the last WGC in Amsterdam), the WGC is the main arena for discussing issues facing the gas industry.

house gas emissions will impact our industry. IGU has therefore decided to team up with a number of partners to launch a special gas event at the UN Climate Change Conference (COP 15) in Copenhagen in December this year to inform the COP 15 delegates and decision-makers about the role of gas in the climate debate. This event is described more in detail in the Magazine.

In these times of change and on the 200th anniversary of the birth of Charles Darwin, let us remember Darwin's conclusion: "It is not the strongest of the species that survive, nor the most intelligent, but the ones most responsive to change".

The gas industry has a long history of successful adaptation to the changes taking place.

T. hideeles

Torstein Indrebø







Countries Represented in IGU

Algeria Estonia Finland Argentina Australia France Austria Germany Bangladesh Greece Belarus, Republic of Hong Kong, China Belgium Hungary Bosnia and Herzegovina India Brazil Indonesia Brunei Iran Bulgaria Ireland Cameroon Israel Canada Italy China, People's Republic of Japan Croatia Kazakhstan Czech Republic Korea, Republic of Denmark Latvia Egypt Libya

Lithuania Macedonia Malaysia Monaco Spain Netherlands, The Nigeria Norway Oman, Sultanate of Pakistan Peru Poland Portugal Qatar **United Arab Emirates** Romania Russia, Federation of Saudi Arabia Serbia

Singapore

Slovak Republic Slovenia South Africa Sweden Switzerland Taiwan, China Thailand Trinidad and Tobago Tunisia Turkey Ukraine

United Kingdom United States of America Venezuela

Vietnam



The Earth, our world

We use her energy
to live our way.
Let's give our energy
to let her live her way.

Natural gas enables transition



www.gasterra.nl



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

Austric

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)

Iran

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

Libya

National Oil Corporation of Libya

Lithuania

Lithuanian Gas Association

Macedonia

Macedonian 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.

SUSTAINING OPERATIONAL EXCELLENCE

Brunei LNG is the first LNG plant in the Western Pacific region, established in 1969.

Since then we have earned an unrivalled reputation as a pioneering and reliable LNG project, solidly positioning ourselves as a Supplier of First Choice. For almost 40 years we have serviced the gas markets of the North Asian region, successfully and uninterruptedly delivering over 5,500 cargoes of LNG since 1972.

Today we continue to set remarkable standards of reliability and operational excellence. We were the first LNG plant in the world to be accredited with the ISO14001 Environmental Management System. We have been benchmarked as a top-quartile performing organisation, and ranked the number one Shell-advised LNG plant for two consecutive years (2006-2007). Sustaining operational excellence is our key priority as we prepare to extend our business beyond 2013.

This year we are proud to celebrate the 40th anniversary of our establishment. As a pioneer in the industry with a confirmed track record of reliability and operational excellence, Brunei LNG is a proven LNG player and we are ready for more business.





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CHARTER MEMBERS (CONTINUED)

Poland

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

Portugal

GDP – Gás de Portugal, SGPS, S.A.

Qatar

Qatar Liquefied Gas Company Ltd (Qatargas)

Romania

S.N.G.N. Romgaz S. A.

Russia, Federation of JSC Gazprom

Saudi Arabia Saudi Aramco

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

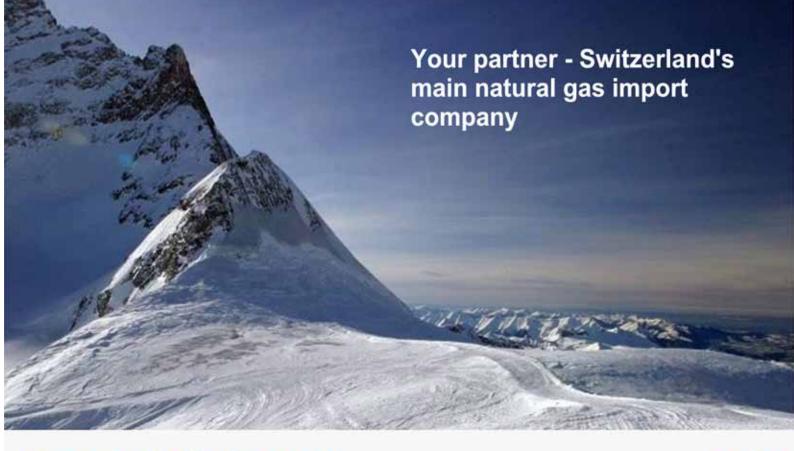
Venezuela Petróleos de Venezuela S.A. (PDVSA)

Vietnam

Vietnam Oil and Gas Group (PetroVietnam)



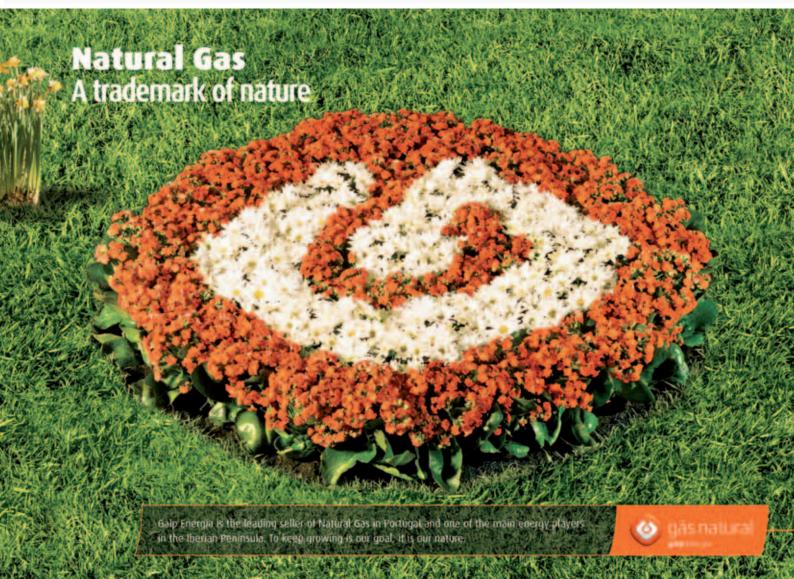
The IGU Secretariat is hosted by StatoilHydro at these offices in Sandvika, Oslo.



SWISSGAS

Schweizerische Aktiengesellschaft für Erdgas Société Anonyme Suisse pour le Gaz Naturel Società Anonima Svizzera per il Gas Naturale







ASSOCIATE MEMBERS

Bayerngas (Germany)

BP Gas, Power & Renewables (United Kingdom)

Bursagaz (Turkey)

Cheniere Energy Inc. (USA)

Chevron Corp. (USA)

China National Petroleum Corporation (China)

ConocoPhillips Company (USA)

DanaGas (UAE)

E.ON Ruhrgas AG (Germany)

GasTerra (The Netherlands)

GAZBİR – Association of Natural Gas Distributors of Turkey

GDF SUEZ (France)

IGDAŞ – Istanbul Gas Distribution Co. (Turkey)

Indian Oil Corporation Ltd (India)

Instituto Brasileiro de Petróleo, Gás e Biocombustíveis – IBP (Brazil)

Interstate Natural Gas Association of America (USA)

Taqa, Arab Company for Energy (Egypt)

Izgaz – Izmit Gaz Dagitim San. Ve Tic A.Ş. (Turkey)

Naturgas Fyn A/S (Denmark)

NV Nederlandse Gasunie (The Netherlands)

NV NUON Asset Management (The Netherlands)

Petróleo Brasileiro S.A. – Petrobras (Brazil)

Russian Gas Society (Russia)

RWE Gas AG/RWE Energy (Germany)

Shell Gas & Power International B.V. (The Netherlands)

Société Suisse de l'Industrie du Gaz et des Eaux – SSIGE/SVGW (Switzerland)

TBG – Transportadora Brasileira Gasoduto Bolívia-Brasil S/A (Brazil)

TOTAL S.A. (France)

Unión Fenosa Gas (Spain)

Union of Independent Gas Producers (Russia)

SUPPORTER OF IGU

Alcatel-Lucent

ORGANISATIONS AFFILIATED TO IGU

Energy Delta Institute

European Gas Research Group (GERG)

Gas Infrastructure Europe (GIE)

International Association for Natural Gas Vehicles (IANGV) including its regional affiliates

IGU Research Conference Foundation

International Pipeline & Offshore Contractors Association (IPLOCA)

Marcogaz

National Gas Vehicle Association of Russia (NGVRUS)

Pipeline Research Council International, Inc. (PRCI)

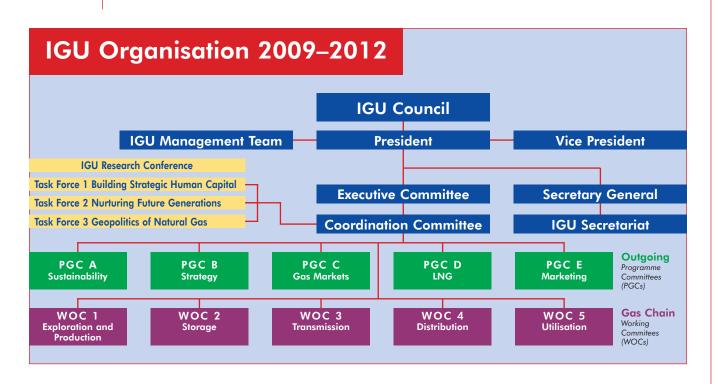


Demand for energy is continuing to rise, together with demand for renewable energy solutions. Natural gas plays a crucial role in meeting this requirement. It is the cleanest fossil fuel and has the lowest emissions of CO_2 (greenhouse gases). Moreover, we can always rely on gas, anywhere and at all times, partly due to our advanced gas transport network. This flexible, tried and tested energy base gives innovations the opportunity to grow. For example, in the form of micro-combined heat and power units or gas-powered cars. We are also working on ways to further 'green' gas through the application of biogas, which is derived from renewable residual gas flows. With our extensive knowledge of transport, we can also ensure that CO_2 is removed to storage sites rather than released into the atmosphere.

takes gas transport further

Together we can create a greener future







LEFT

This photograph was taken at the Executive Committee (EXC) meeting in London, UK, in June.

From left to right in each row starting at the front are:

Gordon Davies (President of the meeting host IGEM and not a member of the EXC), leda Correia Gomes, Datuk (Dr) Abdul Rahim Hj Hashim;

Daniel Paccoud, Robert J. Harris, Ernesto López Anadón;

Evgueni Riazantsev, Hae-jung Oh, George H. B. Verberg;

David N. Parker, Yves Tournié, Seiichi Uchino (who was substituting for Kunihiro Mori), Torstein Indrebø (who attended as Secretary General and is not a member of the EXC);

Miloš Kebrdle (who was substituting for Tomáš Tichý), Klaus Homann, Peter I. Hinstrup;

John Williams (CEO of IGEM), Ho Sook Wah, João Carlos de Luca;

Jan Rune Schøpp, Domenico Dispenza, Antoni Peris Mingot.

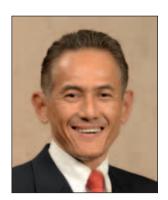
Wan Zulkiflee Wan Ariffin's substitute Zenorai Rambli missed the photo session, while Otto Musilek and Chawki Mohamed Rahal could neither attend the meeting nor send a substitute.



IGU MANAGEMENT TEAM



Mr Ernesto López Anadón



Datuk (Dr) Abdul Rahim Hj Hashim



Mr George H. B. Verberg



Mr Jérôme Ferrier



Mr Roberto D. Brandt



Mr Ho Sook Wah



Mr Georges Liens



Mr Torstein Indrebø

The triennial World Gas Conference marks the changing of the guard at IGU.

Under the current Argentine Presidency the six members of the Management Team are:

Mr Ernesto López Anadón, IGU President (Argentina)

Datuk (Dr) Abdul Rahim Hj Hashim, IGU Vice President (Malaysia)

Mr George H. B. Verberg, Immediate Past President (The Netherlands)

Mr Roberto D. Brandt, Chairman of IGU Coordination Committee (Argentina)

Mr Ho Sook Wah, Vice Chairman of IGU Coordination Committee (Malaysia)

Mr Torstein Indrebø, Secretary General

When Malaysia assumes the Presidency at the close of the 24th WGC the Management Team will comprise:

Datuk (Dr) Abdul Rahim Hj Hashim, IGU President (Malaysia)

Mr Jérôme Ferrier, IGU Vice President (France)

Mr Ernesto López Anadón, Immediate Past President (Argentina)

Mr Ho Sook Wah, Chairman of IGU Coordination Committee (Malaysia)

Mr Georges Liens, Vice Chairman of IGU Coordination Committee (France)

Mr Torstein Indrebø, Secretary General



GOT THE POYER