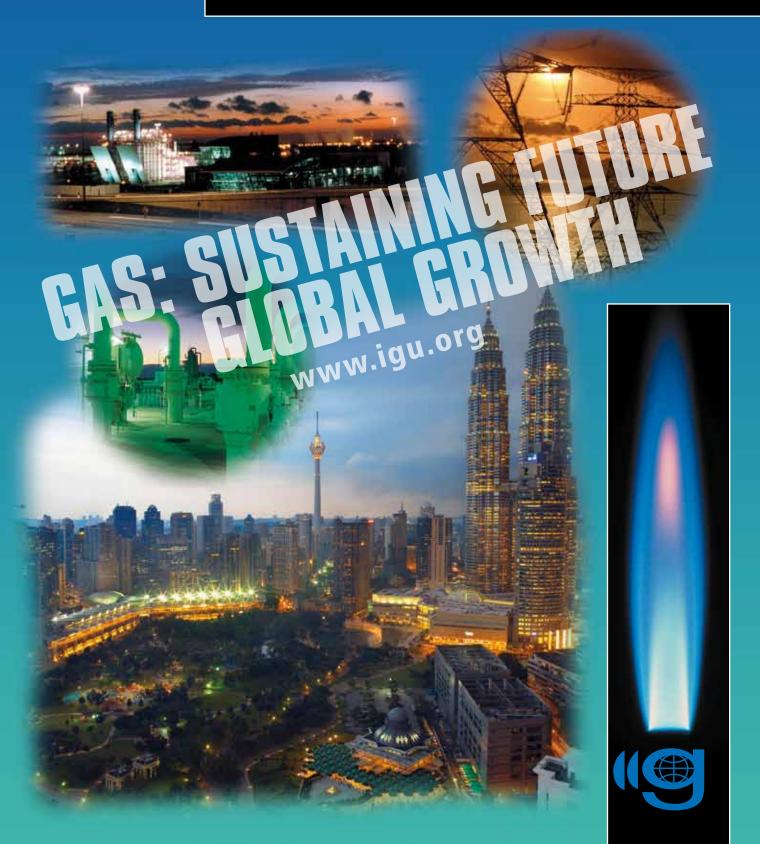
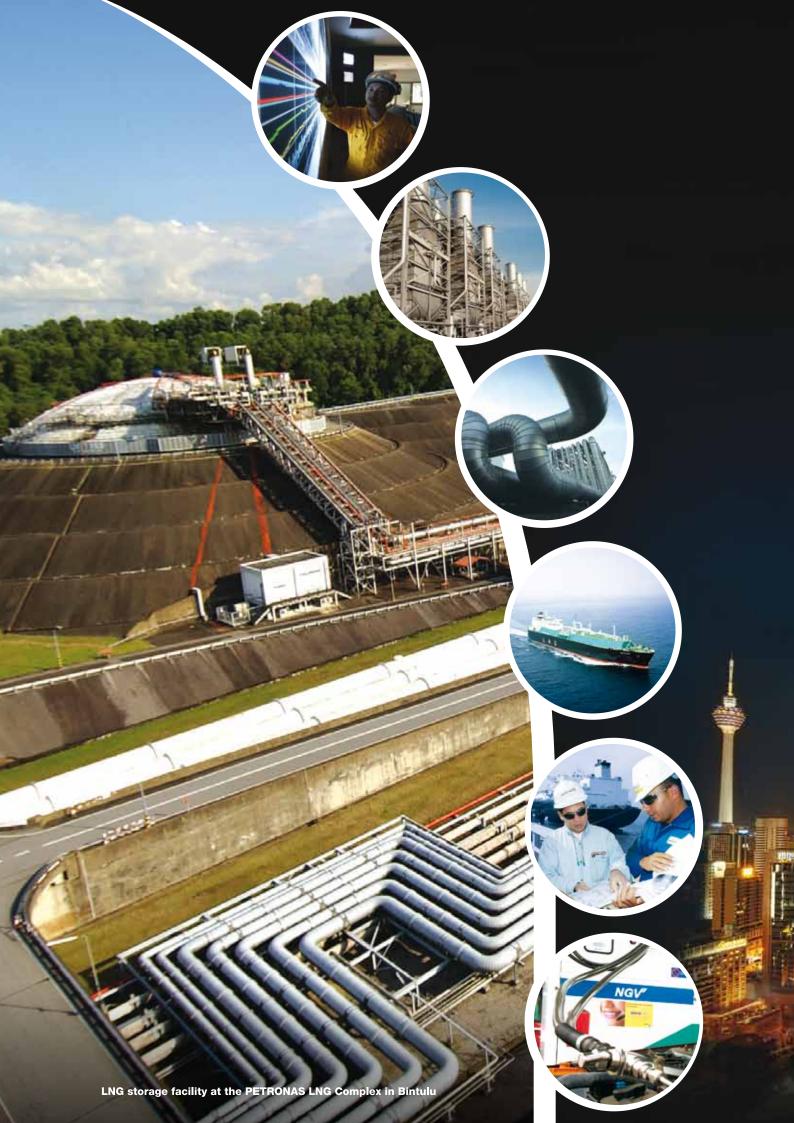
International Gas APRIL 2010 INTERNATIONAL GAS UNION





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.



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GE Oil & Gas has a 40-year heritage of LNG breakthroughs. We've continually pushed technological boundaries from our earliest steam turbines, to our 2 MTPY Frame 5 in 1989, to our latest 8 MTPY Frame 9 supertrain. Our evolutionary approach combines field-proven technologies with creative new ideas and experience – always making the largest possible leap forward while maintaining optimal risk and safety standards at every step. From conventional plants to compact floating systems, from the Arctic to the desert and everywhere in between, our equipment is trusted in every environment and for any challenge along the way.

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International Gas APRIL 2010

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 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.





BP is one of the world's largest and most experienced energy providers. Working with our partners across the value chain we produce over 8 bcfd 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 LNG delivery, 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







Message from the President

Dear Colleagues

It is my pleasure to write this message to all of you in my capacity as the new President of IGU. This is the first issue of the IGU Magazine in 2010, a year which marks the beginning of a new and hopefully more promising decade in this millennium. The past decade has seen dramatic events in many business sectors including the sharp movements in energy prices which have had a tremendous impact on the global economy. Most notable has been the sudden and almost complete meltdown of the financial industry worldwide, with serious knock-on effects in terms of employment, production and consumption. Fortunately today, there are some positive signs of recovery thanks to the economic stimulus packages of many countries. Consumer spending and industrial activities are increasing in many sectors. With the global economy on the mend, we can now reflect on how we can make 2010 and the coming years better than those before.

In the global gas industry, particularly within the IGU fraternity, we will be striving to promote wider use of natural gas over the 2009-2012 Triennium. As the most environment-friendly fossil fuel, natural gas can make a major contribution to the mitigation of climate change by complementing renewable energy and enhancing energy efficiency. We should build on the limited success of the UN Climate Change Conference (COP15) held in Copenhagen last December; and we can do this without having to negotiate or reach binding agreements between developed and developing nations. By championing the worldwide development and growth of natural gas markets and infrastructure projects - in both gas producing and consuming nations - as an alternative to other fossil fuels, we can fulfil our collective

responsibility to promote sustainable development. The industry needs to boost investment in exploration activities to find more gas resources, especially in developing countries and in frontier areas, while at the same time promoting technologies that will help reduce emissions of greenhouse gases and thus mitigate adverse impacts on the environment due to global warming.

The focus of the Malaysian Triennium is on the sustainability of the gas industry as reflected in our theme, "Gas: Sustaining Future Global Growth". We know that as the world economy recovers and expands, the need for clean, efficient energy will continue to grow. Our view is that, now and in the foreseeable future, gas with its inherent merits, is the key element in the fuel mix and plays a vital role in meeting expanding energy needs while helping to cut greenhouse emissions. However, the position of gas in the future energy system cannot be taken for granted. For gas to play a key role, there are a number of concerns that must be addressed.

Firstly, gas needs to have a more effective and consistent voice to support its rightful position in the overall energy system. We cannot assume that because natural gas is the most efficient and least polluting of the fossil fuels, it is the automatic solution of choice. There is a need for a strong case to be made for gas, especially in the policy arena.

Secondly, gas must be made available at the right time, right place and right price. This concerns access to upstream supplies as well as access to downstream markets. Issues that must be addressed include new technologies, investment incentives, regulatory regimes, geopolitics, resource nationalism and gas pricing. The recent revolution of non-conventional gas in the United States will potentially be a game changer and the implications have to be carefully assessed.

Thirdly, we need to improve gas efficiency throughout the value chain. Efficiency is an important imperative for sustainable growth and must be pursued more vigorously. Important



levers are the right energy policies, price, technology and innovation.

Fourthly, it is vital to ensure adequate human capability to foster the growth and integrity of the industry. This has often been neglected but it is a very important and critical issue for the sustainability and safety of the industry. A scarcity of talent, manifested in the difficulty in attracting and retaining manpower, has been plaguing the industry for a long time. When we consider the fact that the average age of the oil and gas industry worker is 49 years, this problem becomes more acute and pressing.

The above concerns are detailed in the Strategic Guidelines developed under the Triennial Work Programme and translated into the 32 studies that will be undertaken during the course of the Malaysian Presidency. More than 500 people from across the IGU membership have so far signed up to participate in the Technical Committees, and I am very pleased with the support demonstrated. In addition, IGU will continue to work with other international organisations, to be the spokesman of the gas industry and to address the many challenges faced. I am confident that with the knowledge, skills and experience of the IGU membership, we can look forward to a successful Triennium.

Datuk (Dr) Abdul Rahim Hashim



Datuk (Dr) Abdul Rahim Hashim, President.

At Repsol, we work everyday to contribute



Peru LNG Project

The Peru LNG Project entails the construction and operation of a 4.2 Mtpa. liquefaction plant in Pampa Melchorita, in which Repsol holds a 20% stake. Feed gas will be supplied to the plant by the Camisea consortium, in which Repsol has a 10% stake. The PLNG project also includes a pipeline that will connect with the existing natural gas transportation network to the domestic market.

Peru LNG will be the first liquefaction plant in South America and its completion is expected in mid-2010.

Repsol is the sole off-taker and world wide marketer of the total LNG plant output.



Let's invent the future



efficiently to the energy supply for the markets.

Canaport™ LNG is the first land-based LNG receiving and re-gas facility built on the East Coast of North America in over 30 years and the first ever built in Canada. It can provide up to 1 BCFD of natural gas, on a firm basis, into the market and has 10 BCF of storage. It is expandable up to 2.5 BCFD and 16 BCF of storage. Canaport™ LNG's facility has a year-round ice free port and is able to receive the largest LNG tankers currently designed. Through this facility, Repsol can now access the most lucrative market in North America.

Repsol has secured a portfolio of natural gas supplies that provide the markets in Canada and the Northeast USA greater diversity and security of supply. This portfolio, combined with the capability of the Canaport™ LNG facility, allow Repsol to offer flexible supply arrangements to local distribution companies, power generators, industrial end-users and other markets in the region. Repsol's presence will enable the market to accomplish its cleaner burning energy agenda now and for the long term.



Canaport™ LNG Plant, Canada





Message from the Secretary General

Dear Reader

The 24th World Gas Conference (WGC) in Buenos Aires, Argentina, October 5-9, 2009, will be remembered for its excellent professional and social content. It confirmed that the triennial WGC is the most important meeting place for the gas industry with many high-level participants and speakers representing the political and industrial leadership. The conference emphasised the positive outlook for natural gas and the industry's long-term commitment, especially in light of the need for reduced emissions of greenhouse gases.

During the Argentine Presidency IGU has enhanced its global reach, and has become more visible and active in geo-politics and the policy-making arena. This process will continue since politics and regulation at the national and international level have become increasingly significant for the gas industry.

The IGU Committees and Task Forces produced many excellent reports and publications as part of the 2006-2009 Triennial Work Programme (TWP).



Torstein Indrebø, Secretary General.

These can be downloaded from the IGU website and I recommend that you take a look.

The Council meeting that took place immediately before the 24th WGC approved Angola, Equatorial Guinea and Timor-Leste as new Charter Members together with six new Associate Members. These are: BG Group, UK; Det Norske Veritas, Norway; Gaslink, Ireland; Sonorgás, Portugal; Spetzneftegaz, Russia; and Vopak LNG Holding, The Netherlands. The new Charter Members are



The IGU Gas Event in Copenhagen in December 2009 sent out a strong message.



presented in this issue of the IGU Magazine while the Associate Members will be presented in the autumn issue. Welcome to the IGU family!

The Council also elected Datuk Rahim Hashim as President of IGU for the 2009-2012 Triennium and Sook Wah Ho as the new Chairman of the Coordination Committee. The appointed Chairs, Vice Chairs and Secretaries of the IGU Committees and Task Forces together with the committee members have already started work on the approved TWP.

You will find more information about the 24th WGC in Buenos Aires and from the new Presidency as well as reports on other IGU activities over the last six months in the following pages. These activities include the IGU Gas Event at the UN Climate Conference in Copenhagen in December 2009, which gave a strong message:

- Switching to gas from coal in power production can give significant reductions in CO₂ emissions in the short, medium and long term;
- The technology is already available;

- Increased use of gas and emissions savings can take place without huge subsidies;
- Technological developments will continue in the areas of CCS and renewables, but it will take many years before such technologies can be deployed on a large scale.

IGU will enhance its efforts, ensuring that the environmental benefits of gas will be more recognised by the public and other stakeholders.

Enjoy your reading.

Theres

Torstein Indrebø



Over 3,500 participants from 83 countries gathered in Buenos Aires for the 24th WGC.



Bringing energy to life

Qatar, 6:30 am. Abdulla's heritage is linked to his future. RasGas is there.

RasGas supplies Europe, Asia and America with liquefied natural gas, one of the world's most climate-friendly fossil fuels.

From Qatar, one of the world's largest and most reliable sources.





Countries Represented in IGU

Algeria Egypt Angola **Equatorial Guinea** Argentina Estonia Australia Finland Austria France Bangladesh Germany Belarus, Republic of Greece Belgium Hong Kong, China Bosnia and Herzegovina India Brazil Indonesia Brunei Iran Ireland Bulgaria Cameroon Israel Canada Italy China, Japan People's Republic of Kazakhstan Croatia

Libya

Czech Republic

Denmark

Monaco Netherlands, The Nigeria Norway Oman, Sultanate of **Pakistan** Peru Poland Portugal Qatar Romania Russia, Federation of Saudi Arabia Korea, Republic of Serbia Latvia Singapore Slovak Republic

Lithuania

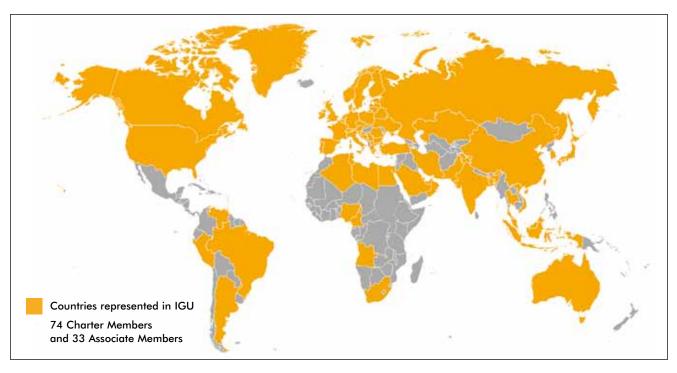
Malaysia

Macedonia

Slovenia South Africa Spain Sweden Switzerland Taiwan, China Thailand Timor-Leste Trinidad and Tobago Tunisia Turkey Ukraine

United Arab Emirates United Kingdom United States of America

Venezuela Vietnam





around 80 billion m3 annually. We provide also gas related services involving capacity, quality conversion and storage. Our products reflect market categories and our prices market values. Both oil- and spot-indexation prices are offered, depending on the type of contract and risk profile that our customers prefer. GasTerra strives to maintain long-term relationships. GasTerra is committed to sustainable development as a guiding principle for its strategy and actions. The company recognises the great importance of energy transition and initiates projects in this context, like advanced combined heat-power units, cooling by natural gas and the combination of natural gas with hydrogen and so-called green gasses. GasTerra is based in the Netherlands, in the midst of Energy Valley. We buy and sell natural gas and share our knowledge. GasTerra, it's all in the name.





CHARTER MEMBERS

Algeria

Association Algérienne de l'Industrie du Gaz – AIG

Angola

Sonangol Gás Natural

Argentina

Instituto Argentino del Petróleo y del Gas

Australia

Australian Gas Industry Trust

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 c/o Brunei LNG Sdn Bhd

Bulgaria

Overgas Inc.

Cameroon

Société Nationale des Hydrocarbures

Canada

Canadian Gas Association

China, People's Republic of China City Gas Society Croatia

Denmark

Croatian Gas Association

Czech Republic

Czech Gas Association

Dansk Gas Forening – Danish Gas Association

Egypt

Egyptian Gas Association

Equatorial Guinea Sociedad Nacional de Gas G.E.

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

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 JSC

Korea, Republic of Korea Gas Union

Latvia

JSC Latvijas Gāze

Libya

National Oil Corporation

Lithuania

Lithuanian Gas Association

Macedonia

Macedonian Gas Association

Malaysia

Malaysian Gas Association (MGA)

Monaco

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

Netherlands, The

Royal Dutch Gas Association – Koninklijke Vereniging van Gasfabrikanten in Nederland (KVGN)

Nigeria

Nigerian Gas Association c/o Nigeria LNG Ltd

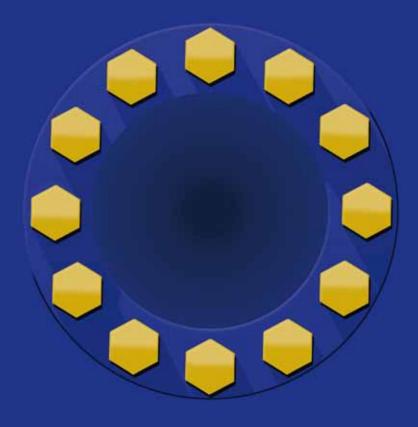
Norway

Norwegian Petroleum Society (NPF) – Norwegian Gas Association

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

Pakistan

Petroleum Institute of Pakistan



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CHARTER MEMBERS (CONTINUED)

Peru

Perúpetro S.A.

Poland

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

Portugal

GDP – Gás de Portugal, SGPS, S.A.

Qatai

Qatar Liquefied Gas Company Ltd (Qatargas)

Romania

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

Russia, Federation of OAO Gazprom

Saudi Arabia Saudi Aramco

Serbia

Gas Association of Serbia

Singapore Power Gas Ltd

Slovak Republic

Slovak Gas & Oil Association

Slovenia

Geoplin d.o.o. Ljubljana

South Africa CEF (Pty) Ltd

Spain

Spanish Gas Association – Asociación Española del Gas (SEDIGAS)

Sweden

Swedish Gas Association – Svenska Gasföreningen

Switzerland

Schweizerische Aktiengesellschaft für Erdgas (SWISSGAS)

Taiwan, China

The Gas Association of the Republic of China, Taipei

Thailand

PTT Public Company Ltd

Timor-Leste

Secretariat of State for Natural Resources (Government of the Democratic Republic of Timor-Leste) 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

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 Statoil at these offices in Sandvika, Oslo.

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Bayerngas (Germany)

BG Group plc (United Kingdom)

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)

Det Norske Veritas (Norway)

E.ON Ruhrgas AG (Germany)

Gaslink - Gas System Operator Ltd (Ireland)

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)

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

Liander (The Netherlands)

NV Nederlandse Gasunie (The Netherlands)

Petróleo Brasileiro S.A. – Petrobras (Brazil)

Russian Gas Society (Russia)

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

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

Sonorgás (Portugal)

Spetsneftegaz NPO JSC (Russia)

Taqa Arab Company for Energy (Egypt)

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

Thyssengas GmbH (Germany)

TOTAL S.A. (France)

Unión Fenosa Gas (Spain)

Vopak LNG Holding BV (The Netherlands)

ORGANISATIONS AFFILIATED TO IGU

Energy Delta Institute (EDI)

Foundation IGU Research Conferences (Foundation IGRC)

Gas Infrastructure Europe (GIE)

Gas Technology Institute (GTI)

GERG – Groupe Européen de Recherches Gazières/European Gas Research Group

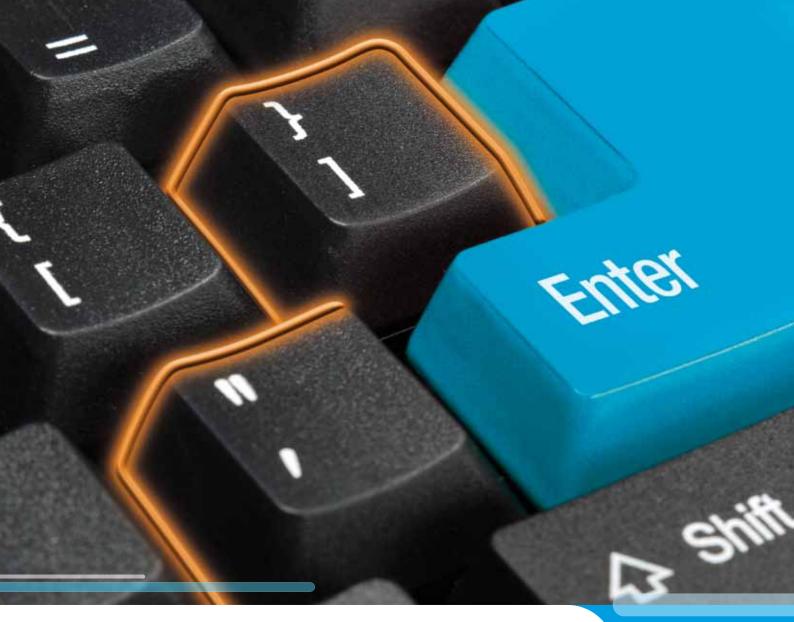
GIIGNL – Groupe International des Importateurs de Gaz Naturel Liquéfié/International Group of LNG Importers International Association for Natural Gas Vehicles (IANGV) including its regional affiliates

International Pipeline & Offshore Contractors Association (IPLOCA)

Marcogaz

Pipeline Research Council International, Inc. (PRCI)

Russian National Gas Vehicle Association (NGVRUS)



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At the new Thyssengas, 300 specialists are taking charge of a new task in the changing world of energy: natural gas logistics.

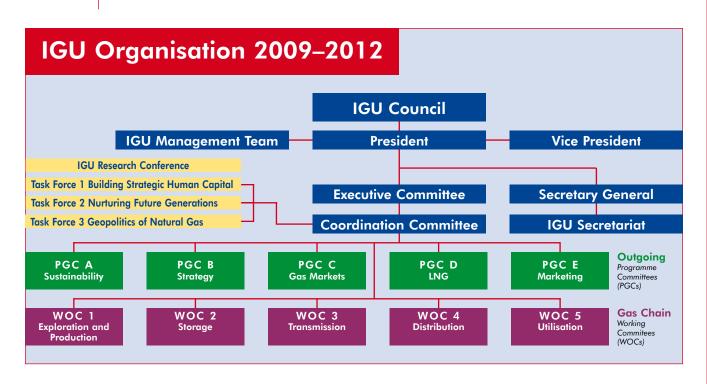
We balance all the functions of classical gas transportation with new service offers. At the same time, we will increase efficiency in the gas distribution system with innovative products. Our customers obtain more transportation flexibility while profiting from newly created savings potential.

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This photograph was taken at the last Executive Committee (EXC) meeting of the Argentine Triennium in Buenos Aires in October 2009.

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

Hae-jung Oh, Chawki Mohamed Rahal, George H. B. Verberg, Ernesto López Anadón, Datuk (Dr) Abdul Rahim Hj Hashim, Ho Sook Wah, leda Correia Gomes;

Domenico Dispenza, Yves Tournié, Jan Rune Schøpp, Antoni Peris Mingot, Torstein Indrebø (who attended as Secretary General and is not a member of the EXC), João Carlos de Luca, Wan Zulkiflee Wan Ariffin, Peter I. Hinstrup;

David N. Parker, Daniel Paccoud, Colin Lyle (who was substituting for John Williams), Hirofumi Kyutoku, Tomáš Tichý, Evgueni Riazantsev, Georges Liens (not then a member of the EXC), Jérôme Ferrier (not then a member of the EXC), Reinhard Schweifer.

Roberto D. Brandt and Walter Thielen (who was substituting for Klaus Homann) missed the photo session.

The members of the current EXC are detailed opposite.



IGU MANAGEMENT TEAM



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



Mr Jérôme Ferrier, Vice President (France)



Mr Ernesto López Anadón, Immediate Past President (Argentina)



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



Mr Georges Liens, Vice Chairman of the Coordination Commitee (France)



Mr Torstein Indrebø, Secretary General

IGU EXECUTIVE COMMITTEE 2009-2012 TRIENNIUM

| Dr Chawki Mohamed |
|-------------------|
| Rahal, Algeria |

Mr Ernesto López Anadón Argentina

Mr Carlos Eduardo de Freitas Brescia, Brazil

Ms Shahrzad Rahbar Canada

Mr Miloš Kebrdle Czech Republic

Mr Jérôme Ferrier France

Mr Georges Liens

Mr Daniel Paccoud France

Mr Walter Thielen Germany

Mr Domenico Dispenza Italy

Mr Hirofumi Kyutoku

Japan Mr Hae-jung Oh

Republic of Korea

Datuk (Dr) Abdul Rahim Hj Hashim, Malaysia

Mr Ho Sook Wah Malaysia Mr Marcel Kramer The Netherlands

Mr Jan Rune Schøpp Norway

Mr Alaa Abu Jbara Qatar

Mr Evgueni Riazantsev Russia

Mr Antoni Peris Mingot Spain

Mr John Williams United Kingdom

Mr David N. Parker United States of America Ms Ieda Correia Gomes BP Gas, Power & Renewables, Associate Member

Mr Wang Guangjun, China National Petroleum Corporation, Associate Member

Mr João Carlos de Luca Instituto Brasileiro de Petróleo, Gás e Biocombustíveis, Associate Member

Mr Khaled Abubakr, Taqa, Associate Member

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