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2017 IN BRIEF

In 2017 the WLPGA’s activities were aimed at:

1. Demonstrating the benefits of LPG and informing, educating and influencing a variety of stakeholders.
2. Supporting the development of LPG markets.
3. Promoting compliance with standards, good business and safety practices.
4. Identifying innovation and facilitating knowledge transfer.
AN OVERVIEW OF SOME KEY HIGHLIGHTS OF 2017

WLPGA WELCOMES NEW PRESIDENT
Mr Pedro Jorge, Managing Director of Ultragaz, Brazil became President of WLPGA in October taking over from Mr Yağız Eyüboğlu, President (Energy), Koç Holding, Turkey who remains on the WLPGA Board. WLPGA is delighted to welcome Mr Jorge and warmly thanks Mr Eyüboğlu for his commitment over the past two years.

WORLD LPG FORUM
The 30th World LPG Forum took place in Marrakech, Morocco in October. Another hugely successful event, the Forum attracted around 1,500 participants from 72 countries. Two major highlights were the keynotes by Mr Aziz Rebbah, Minister of Energy, Mines and Sustainable Development of Morocco, and Rachel Kyte, CEO of Sustainable Energy For All.

THE CHARTER OF BENEFITS FOR LPG AND EXCEPTIONAL ENERGY
The Charter of Benefits was launched mid-2017. This major publication outlines a set of common messages and statistics under six main pillars. A comprehensive toolkit is freely available online and the industry is widely adopting the key messages alongside the global brand of Exceptional Energy.

GLOBAL TECHNOLOGY CONFERENCE (GTC2017)
GTC2017 took place during the World Forum and this year saw a record number of 32 submitted abstracts. GTC continues to promote innovative and promising technology in the LPG industry.
DEVELOPING AUTOGAS MARKETS
WLPGA continues to promote Autogas with a dedicated Autogas website, a bi-weekly newsletter and the annually updated Autogas Incentives Policy. In 2017 WLPGA also commissioned a market research on the Moroccan market to assess the potential for introducing Autogas into Morocco.

WOMEN IN LPG GLOBAL NETWORK
WINLPG went from strength to strength in 2017 with now well over 500 members, a comprehensive set of role models available on-line and an active social media presence. WINLPG held three practical Knowledge Exchange workshops in India, the UK, and South Africa and networking events in Portugal, Morocco and Brazil.

COOKING FOR LIFE
Cooking For Life continues to be a major campaign and in 2017 dedicated Cooking For Life workshops were held in Dhaka, Maputo and Lagos. Cooking For Life, in cooperation with the Global LPG Partnership (GLPGP), also hosted the first LPG For Development Summit which took place during the World LPG Forum.

WLPGA CONTINUES TO PRODUCE MAJOR INDUSTRY PUBLICATIONS
Each year WLPGA produces leading industry reports, in 2017 WLPGA released, amongst others, reports covering LPG for Power Generation, an LPG Policy Document, LPG for Marine Engines, Heavy Duty LPG Engines, Synthetic Natural Gas The LPG Opportunity and two new guidelines on LPG use in Waterborne Vessels and LPG Cylinder Filling.

LPG is a clean, modern fuel that brings comfort to tens of millions of consumers worldwide. Its versatility makes it efficient and easy to use and its clean burning qualities allow for lower carbon emissions with the same, if not better, results. Vehicles remain one of the most significant factors in air pollution, but those running on LPG produce far fewer of the harmful emissions associated with traditional road fuels that contribute to environmental and health problems. Autogas is clean, cost-friendly and easy alternative for powering vehicles while ensuring a lower carbon footprint.

This case study looks at the growth of Autogas in Spain and the roles of the public and private sectors in incentivising Spanish drivers to make the transition to Autogas.

The Ideal Market for LPG Power Generation
An exploration of the key characteristics which can make a country an ideal market for LPG Power Generation
A WLPGA case study for Exceptional Energy
www.wlpga.org

This study defines the key market characteristics which make a country ‘ideal’ for using LPG as a fuel for power generation.

Key market characteristics:
1. Seeking to fill power gaps of up to 250 MWe
2. Existing power generation relying heavily on diesel / HFO
3. High wholesale electricity prices
4. Already using LPG (with high propane content)
5. Limited (or non-existent) natural gas grid
6. Domestic production of LPG
7. Policies which encourage a focus on emission reduction
8. Well-functioning regulatory policies & enforcement
THE SIX PILLARS OF THE CHARTER OF BENEFITS

HEALTH

CLIMATE

ECONOMIC GROWTH & SOCIAL PROGRESS

RESOURCE EFFICIENT

EFFICIENCY

ENERGY FUTURE
It is my pleasure to introduce the 2017 WLPGA Annual Report in my first year as its President. 2017 has been characterised by significant uncertainty and change - whether by a new administration in the USA challenging the policy of the past; potential fractures in the EU as a result of Brexit and the Catalan independence movement; the beginning of the end of war in Syria or new evidence of climate change seen through catastrophic weather events. Through all this uncertainty, one thing has remained constant and that is the increasing global awareness of poor air quality and the impact on human lives and development. The LPG industry is very well placed to address this issue.

Our product is unique, exhibiting the advantages of clean, grid-based modern energy yet at the same time having the ease of distribution of traditional fuels. LPG is the ideal fuel for off-grid areas in developed countries but also the fuel of choice for communities wishing to transition away from wood or other unsustainable biomass to a modern energy-carrier. Accepted estimates are that some seven million people die each year from indoor air pollution from cooking with traditional fuels. Overall, air pollution costs the world 6% of its GDP yet it is an entirely solvable problem that LPG can help address.

The good news is that production of LPG is growing at some 6% per year, providing the opportunity to grow clean energy markets, to reduce air pollution and to save lives. In the coming two years of my presidency, the WLPGA will continue to develop new projects and policy recommendations that will expand applications for LPG and increase living standards globally. We will work impartially, together with our members, to strive for better standards as we increase our membership to over three hundred organisations.

I would like to thank all WLPGA members and the staff of the Association for meeting the challenges of 2017 with vision and enthusiasm. We are making a major difference to people’s lives, and with your continued support, our industry will grow and prosper, both now and in the future.

Pedro Jorge
President, WLPGA
LPG PROVIDES BUSINESSES IN BOTH DEVELOPED & DEVELOPING COUNTRIES WITH RELIABLE ENERGY
By any measure, WLPGA had an excellent 2017. This year represented the first year of our new three-year strategic plan whose title is “growing influence, increasing impact” and this is exactly what we have been doing. Structured around four principle goals of: Communications; Market Development; Standards and Technology & Innovation, WLPGA met or exceeded all of its targets for the year. In addition, we have grown our global membership by a record amount, bringing in 30 new organisations which represents a growth of over 10%.

Although slightly higher than 12 months ago, oil prices, and consequently LPG prices, remained relatively low during 2017, during which period LPG production continued to grow. During the last 12 months we have seen demand in the domestic sector surge as a result of mass household conversions to LPG from biomass and liquid fuels in India and Indonesia. Globally, Autogas has continued to grow with decreases in some established markets more than being offset by growth in new developing markets such as those in Eastern Europe and Central Asia. In 2017 LPG for power generation emerged as a new segment with potential for high volume consumption. Cooperation with existing partner organisations has strengthened this year while new partnership agreements have been forged.

At the end of 2017 the LPG industry is in very robust health. We have seen growing and diversified sources of supply with a strong rise in global LPG production, particularly from the USA. Consumption looks set to grow across all sectors - driven by lower prices but also through targeted advocacy campaigns from the WLPGA and our partner organisations. In 2018, with the cooperation and support of our members, we will continue to strive to meet the objectives of our three-year strategic plan while growing our membership base.

WLPGA is the global voice of the LPG industry and we deliver significant value to our customers and the LPG sector more broadly. Whatever your business, if you are not already a member then join us, and contribute and benefit from the leading global LPG network that is the WLPGA.

James Rockall
CEO and Managing Director, WLPGA

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ABOUT THE INDUSTRY

GLOBAL LPG PRODUCTION GROWTH

- **5.75%**

  - **Chile**
  - Global LPG production grew by 5.75% in a single year

CHINESE PRODUCTION AND CONSUMPTION GROWTH

- **+20%**

  - Indian use of LPG grew by more than +11%

  - Chinese production and consumption grew by more than +20%

  - Driven by the switch from polluting cooking fuels to clean cooking

INDIAN USE OF LPG GROWTH

- **44%**

  - Domestic use represents 44% of global LPG use

GLOBAL LPG PRODUCTION EXCEEDED THE 300MN T/YR FOR THE 1ST TIME EVER

- **3.3%**

  - The rate of US LPG production growth on the back of shale gas development slowed, with a 3.3% annual rise compared with over 10% year-on-year growth in 2015

DOMESTIC USE REPRESENTS 44% OF GLOBAL LPG USE

- **Filling stations across the globe**

  - 76,000 filling stations across the globe

A PROGRAMME IN INDIA TO HELP SUBSIDIES AT ECONOMICALLY DISADVANTAGED AND RURAL HOUSEHOLDS TO MOVE AWAY FROM COOKING WITH BIOMASS IS DELIVERING REAL RESULTS

- **Smaller Autogas markets, especially in Eastern Europe and Central Asia, flourished in 2016, helped by the relatively competitive price of autogas at the pumps**

THE PETROCHEMICAL SECTOR ADDED ANOTHER 10MN T/YR OF DEMAND FOR LPG

- **Air quality is ever more clearly defined as a leading cause of health issues, highlighting the need for cleaner cooking, heating transport and industrial energy solutions**

AUTOGAS CONSUMPTION CONTINUES TO GROW AND IS NOW AVAILABLE IN OVER 76,000 FILLING STATIONS ACROSS THE GLOBE

- **A programme in India to help subsidies at economically disadvantaged and rural households to move away from cooking with biomass is delivering real results**

- **A programme in India to help subsidies at economically disadvantaged and rural households to move away from cooking with biomass is delivering real results**
ABOUT THE WLPGA

VISION & MISSION
The WLPGA is the authoritative voice of the global LPG industry representing the full LPG value chain. The primary aim of the association is to add value to the sector through driving premium demand for LPG, while also promoting compliance to good business and safety practices. It brings together private and public companies involved in one, several or all activities of the industry, it develops long-term partnerships with international organisations and implements projects on local and global scales. The association was established in 1987 and granted Special Consultative Status with the United Nations Economic and Social Council in 1989.

THE WLPGA VISION
The WLPGA promotes the use of LPG to foster a safer, cleaner, healthier and more prosperous world.

THE WLPGA MISSION
- Demonstrate the benefits of LPG and inform, educate and influence all stakeholders.
- Support the development of LPG markets.
- Promote compliance with standards, good business and safety practices.
- Identify innovation and facilitate knowledge transfer.

“NICK QUINTONG
CEO, PayGo Energy, Kenya

The WLPGA is the most important association we are a part of and is critical to our long-term success in the industry.”
MEMBERSHIP 2017

WLPGA has a global membership base of some 250 members operating in more than 125 countries. The following are WLPGA Members during 2017.

AFRICA
Afriqiagaz, Morocco
Afrox, South Africa
Caisse de Stabilisation des Prix des Hydrocarbures, Cameroon
Engineering Co for Producing Gas Cylinders, Egypt
Gas to Health Initiative GTHI, Nigeria
Gaz Congo SAS, Congo
Ghanaian Ministry of Petroleum, Ghana
Ghana Cylinder Manufacturing Company (GCMC), Ghana
LP Gas Safety Association of South Africa (LPGASA), South Africa
Navgas Limited, Nigeria
Nigeria LNG Limited, Nigeria
Nigeria LP Gas Association (NLPGA), Nigeria
Nigerian National Petroleum Corporation (NNPC), Nigeria
Pearl Print Pack Pvt Ltd, India
Israel
Pazgas Ltd, Bangladesh
Government of India, India
Oil Industry Safety Directorate - Oil and Gas Regulatory Authority, India

ASIA
2A Muhendislik San. Tic. A.S, Turkey
Altinboga Gas Equipments, Turkey
Arhan Grup Talisai Imalat San. Ve Tic. Ltd. Sti, Orgaz, Turkey
Astomos Energy Corporation, Japan
Aygaz A.S, Turkey
Bahshundhara LP Gas Limited, Bangladesh
Beximco Petroleum Ltd, Bangladesh
Bharat Petroleum Corporation Limited, India
Brothers Gas, United Arab Emirates
BW LPG, Singapore
CIMC Enric Jingmen Hongtu Special Aircraft Manufacturing Co., Ltd, China
Clean Air Asia, Philippines
Dor Alon Gas Technologies Ltd, Israel
El Corp, South Korea
Elipi (M) SDN. BHD, Malaysia
Emirates Gas LLC, United Arab Emirates
Enesol Glove Corporation, Japan
Energy Market Regulatory Authority of Turkey, Turkey
Energypac Power Generation Ltd., Bangladesh
FIP - Federation of Indian Petroleum Industry, India
Gasco Saudia Arabia, Saudi Arabia
Gyxis, Japan
Hangzhou Yuhang Zhangshan Steel Cylinder Co. Ltd, China
High Pressure Gas Safety Institute, Japan
Highlandustan Petroleum Corporation Ltd, India
Hong Kong & China Gas Co Ltd, China
Indian Auto LPG Coalition – IAC, India
Indian Oil Corporation Limited, India
Ipragaz A.S, Turkey
Isa LPG Corporation, Philippines
ITO Corporation, Japan
Iwatani International Corp, Japan
Japan LP Gas Association, Japan
Jordan Petroleum Refinery, Jordan
Koegas Nython CO, LTD, Japan
Korea Gas Safety Corporation, South Korea
Korea LPG Association, South Korea
Laugfs Gas Pte., Sri Lanka
Lito Gas Lanka Limited, Sri Lanka
LP Gas Center, Japan (LPGC), Japan
LPG Association, Singapore
Maldive Gas Pvt Ltd, Maldives
Mauria Udyog Limited, India
Natgaz, Lebanon
National Gas Company – SAOG, Oman
New Cosmos Electric Co., Ltd, Japan
NewOcean Energy Holdings Limited, Hong Kong SAR China
Oil and Gas Regulatory Authority, Pakistan
Oil Industry Safety Directorate - Government of India, India
Omera Petroleum Limited, Bangladesh
Pazgas Ltd, Israel
Pearl Print Pack Pvt Ltd, India
Pertamina, Indonesia
Petredec Services (Asia) Pvt Ltd, Singapore
Petronas, Malaysia
Philippines LPG Association, Philippines
Plantation Human Development Trust, Sri Lanka
Rawafd International Co, Saudi Arabia
Renault Samsung Motors Co, Limited, South Korea
Rinnai Corporation, Japan
Sahamitr Pressure Container Public Co. Ltd (SMPCPLC), Thailand
Saisan CO LTD, Japan
Saudi Mas Trading, Saudi Arabia
SCG (Thailand) Co Ltd, Thailand
Self Employed Women’s Association (SEWA), India
Shell Hong Kong, Hong Kong SAR China
SK Gas, South Korea
Sunrise LP Gas & Energy (Taiwan) Group, China
The Green Flame Gas Co, Kuwait
Tianlong (China), China
Turkish LP Gas Association, Turkey
Unigaz International Ltd, Lebanon
Yiteks Enerji Isi Makina Imalat san. ve Bi Tic, Turkey

OCEANIA
Compas Industries LTD, New Zealand
Elgas Limited, Australia
LPG Association of New Zealand, New Zealand
Origin Energy, Australia
Secretariat of the Pacific Community (SPC), Fiji
Westfarmers Kleenheat Gas Pty Ltd, Australia

EUROPE
Aburi Composites, United Kingdom
AEGPL - European LPG Association, Belgium
Alizent, Spain
Amintrol-Alta Metalomecanica, Portugal
Antargaz, France
AOQLP - Asociacion Espanola de Operadores de Gases Liquefados del Petroleo, Spain
Argus Media Limited, United Kingdom
Assogasliquidi Federchimica, Italy
AvantiGas Ltd, United Kingdom
The WLPGA is the global voice for the LPG industry, uniting the broad interests of the worldwide LPG industry into one strong independent organisation and we offer a wide range of membership benefits.

**NETWORK**

WLPGA is a constantly growing leadership network with some 250 members operating in over 125 countries. The WLPGA global network brings together leaders of organisations from the entire LPG value chain including observer members from academic bodies, inter-governmental organisations, NGOs and national governments.

**ACCESS**

Members have access to the largest LPG network in the world which gives them a unique opportunity to present their position to the entire industry. Members are strategically placed around the world and by organising regular regional and global events, WLPGA membership offers a powerful platform for members to network.

**WLPGA MATRIX DAY**

The Matrix Day is held three times a year and offers members a full day of discussion on specific topics under the four key goals which are Communication, Market Development, Standards and Technology & Innovation. The Matrix Day allows members the opportunity to share ideas, processes and new technologies to ultimately enable the development of the entire LPG community.

**WOMEN IN LPG GLOBAL NETWORK (WINLPG)**

The mission of WINLPG is to support and help empower women in the industry by leadership, coaching, mentoring and promoting role models. WINLPG holds regular Knowledge Exchange sessions around the world and currently has three national chapters in South Africa, Nigeria and India.

**THE ANNUAL WORLD LPG FORUM**

Arguably the most important event in the LPG calendar, the World LPG Forum regularly attracts hundreds of exhibitors and thousands of delegates each year. The event travels the globe allowing leading executives from the industry and beyond an exceptional opportunity to meet ‘everyone you need to know’ in the sector.

**INFORMATION**

One of the key goals of the WLPGA is to inform and educate all stakeholders about the benefits of LPG. The WLPGA arranges regular interactive meetings and in-country workshops uniting technical experts, senior executives and other key stakeholders and is also able to foster extended influence by offering a highly credible source of information and data to enable members in their own outreach initiatives.

**BUSINESS CONTACTS FOR MEMBERS**

The WLPGA maintains an up-to-date Members’ Directory with full and exclusive contact details which is only available to members giving immediate contact with fellow industry professionals.

**MEMBER QUERIES**

The WLPGA provides members with a permanent query service covering fuel specification standards, equipment standards, consulting firms, engineering firms, safety rules, taxation policies, new business contacts and much more.

**MEMBERS’ ONLY EXTRANET**

This password protected portal has been completely upgraded to offer members even more data, reports and a shareable free photograph library.

**EXCEPTIONAL ENERGY & CHARTER OF BENEFITS TOOLKIT**

Exceptional Energy is the brand developed by the WLPGA to raise awareness of the exceptional benefits of LPG. The WLPGA urges members to adopt the brand logo and quote the statistics given in the newly launched Charter. A comprehensive toolkit is freely available online.

**MEMBERS’ ONLY REPORTS**

The WLPGA publishes certain reports for exclusive distribution to members.

**GLOBAL LPG STATISTICS**

A major membership benefit is that each member receives one free copy of the Statistical Review of Global LPG, the highly referenced annual publication used throughout the industry providing LPG production and consumption data for over 100 countries.
EDUCATION

Investing in knowledge building and sharing among members, and in educating key stakeholders is another important arm of the WLPGA’s work.

WORKSHOPS & TRAINING COURSES

The WLPGA regularly organises interactive workshops, training and train the trainer courses.

SPECIAL PROJECTS FOR MEMBERS

The WLPGA coordinates specific custom-made projects for consortiums of at least three members.

INFLUENCE

The WLPGA develops partnerships with influential international bodies which enables it to address major issues with policy-makers and key opinion leaders.

ACCESS TO INTERNATIONAL INSTITUTIONS

Members have direct access to many NGOs and inter-governmental organisations. The WLPGA has Special Consultative Status with the United Nations and partnerships with major institutions such as the World Bank, the Asian Development Bank, The International Energy Agency and the Global Alliance for Clean Cookstoves.

GLOBAL LEADERSHIP POSITION

The WLPGA enables broad industry representation with highly influential bodies where members benefit from a powerful leadership position that the association holds.

CREDIBILITY

Since 1989, the WLPGA has had official Consultative Status with the United Nations Economic and Social Council (UN ECOSOC). It has also developed long standing partnerships with other international bodies and multi-lateral institutions such as various different departments in the United Nations including Sustainable Energy For All, the World Bank and Regional Development Banks, and a number of respected international NGO’s such as the Global Alliance For Clean Cookstoves. The geographical spread and diversity of the WLPGA’s membership makes the association a representative, trusted and logical partner in international discussions.

WHO CAN JOIN THE WLPGA?

Any organisation that has an interest in the LPG industry can join. There are various categories of membership available to interested organisations.

"LPG is not only a perfect alternative to diesel and a perfect gateway to gas for power generation, but also LPG for cooking is a perfect example of energy transition for B2C residential in growing countries. ENGIE is looking forward to continuing to work with the WLPGA to strongly promote these initiatives worldwide."

CHRISTOPHE CASABONNE
Head of NGLs at ENGIE-GEM

"Membership to the WLPGA has given Algas-SDI opportunities that we never would’ve had by simply attending the WLPGA’s events. Networking with the other members has resulted in two large potential project orders. Additionally, I’m quite certain that our participation in the working group on LPG for Power Generation and assistance drafting the SNG initiative will certainly result in additional business. We will certainly continue our membership."

SEAN GUICHON
Engineered Systems Sales Manager at Algas-SDI
COMMUNICATIONS

Demonstrate the benefits of LPG and inform, educate and influence all stakeholders.
COMMUNICATIONS FOR THE GLOBAL LPG COMMUNITY
External communications are a critical area of WLPGA activities. One of the four WLPGA Goal sectors and under the Chair of Henry Cubbon of DCC Energy, communications ultimately influences all the work and outreach of the association.

WLPGA produces a suite of communications for the global LPG community. This includes the flagship monthly newsletter, The Voice, an extensive library of case studies both print and video, and awareness campaigns targeting specific and relevant activities. WLPGA also works closely with international press, with the goal of ensuring that WLPGA is recognised as the go-to and credible source for all industry information. The WLPGA corporate website is www.wlpga.org that aims to be the main portal for all information, statistics and news concerning LPG. The website is home to all WLPGA’s freely available reports, case studies and good industry practices studies and all industry stakeholders are welcome to access this library of essential reading.

COMMUNICATIONS FOR WLPGA MEMBERS
WLPGA members benefit from special focus communications such as the Insider newsletter. There is also a newly redesigned members’ area on the WLPGA website, which houses a wealth of exclusive data, privilege discount offers to industry events and a brand new photo library where members’ can select and download industry images for use in their own communications.

HENRY CUBBON
Managing Director of DCC LPG
Chair WLPGA Communications Goal

EXTERNAL COMMUNICATIONS

SOCIAL MEDIA
Get connected - follow us on our various social media channels:

@ExceptionalNRG
@LPGapps
@WorldLPGForum
@WINLPG

Exceptional Energy

www.youtube.com/user/WorldLPGas
THE LPG CHARTER OF BENEFITS

One of 2017’s major achievements was arguably the production of a major document, the LPG Charter of Benefits. As the central element of the ‘back to basics’ communications outreach, this key document outlines the common messaging for the industry under six themes: health; climate; economic growth & social progress; resource efficient; efficiency and energy future.

A comprehensive Charter toolkit is freely available online and the industry is encouraged to use the statistics given in the document when discussing the benefits of LPG.

THE EXCEPTIONAL ENERGY BRAND

WLPGA has developed the Exceptional Energy brand to unite the industry under one single powerful master brand. This enables our fragmented industry to speak with one voice as we work to raise awareness of the exceptional benefits of LPG. Exceptional Energy is the master brand under which all WLPGA’s campaigns and events sit. Cooking For Life, Exceptional Energy in Action and regional events all work under this brand, ensuring all WLPGA communications to have a consistent message. Members are encouraged to get creative and weave the brand into their own communications initiatives.

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The website auto-gas.net was revamped towards the end of 2017, with a view to refreshing its look and improving its user friendliness. An enhanced optimisation of the website for search engines will also help it become the hub for all information on Autogas. Positive stories about Autogas development from the news, case-studies, videos were made more visible, while messages on innovation were integrated, positioning LPG as the fuel for the present, if not the future.

The following case-studies were developed in 2017:
- Transition to Autogas: Spain’s journey
- LPG-powered Ford Fiesta at Rally di San Marino

WLPGA commissioned a review of existing science on Autogas emissions to researchers from the West Virginia University, USA, who played a pivotal role in the unveiling of the diesel emission scandal. The key output, a report, served as a basis for the development of key reference points on Autogas emissions. After approval from the members of the WLPGA Autogas focus group, these updated messages on Autogas environmental performance were incorporated into Autogas communications.

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GLOBAL STATISTICAL REVIEW

Argus Media published the 2017 Global Statistical Review which provides a comprehensive market overview and global comparative analysis – setting LPG in the context of primary energy demand trends and including a look at the LPG shipping sector and a view on the potential direction of the global LPG market over the next ten years. Over 120 countries were covered in this year’s Review which reported global production to have exceeded 300 million tonnes in 2016. The picture revealed for 2016 is of an industry that shows robust growth for production and consumption indicating that LPG is still needed as a valued fuel in a wide variety of applications. The Global Statistical Review is issued free to WLPGA members providing a valuable addition to the membership proposition.

WORLD LPG ASSOCIATION
ANNUAL REPORT 2017
The WLPGA hosted the 30th World LPG Forum in October 2017 in Marrakech, Morocco. This event marks the third time that the Forum has taken place in Africa and the second time in Marrakech.

This year’s event saw the end of Mr Yagıç Eyüboglu’s two year tenure as President of the WLPGA and the industry welcomed Mr Pedro Jorge as the new WLPGA President.

This major event offered unparalleled networking opportunities, high quality sessions and side events, and of course, a major exhibition with 117 exhibiting companies. This year’s theme “Fuelling New Markets” was reflected in the sessions and the choice of destination reminded the delegates of the potential in Africa for the LPG industry.

The event attracted around 1,500 participants from 72 countries.
The top five countries represented were Morocco, Italy, France, USA and India.

The event was honored to welcome Mr Aziz Rebbah, Minister of Energy, Mines and Sustainable Development of Morocco who delivered a keynote address on the first day.

There were several lively sessions during the Forum and notably the roundtable, ‘Fuelling New Markets’, which led to an animated discussion on the growth potential in Morocco and Nigeria as well as the potential for growth in developed, mature markets such as the US. There was a general agreement among the panelists that despite the challenges the industry faces there are reasons to be optimistic about the future.

WLPGA warmly thanks all sponsors who contributed to this exceptional event.

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The 31st World LPG Forum will take place in Houston, USA, from 2-4 October 2018.

www.worldlpgforum2018.com
@WorldLPGForum
Each year, WLPGA organises a Regional Summit which aims to bring global visibility to regional issues. The 2017 WLPGA Asia LPG Forum was held in New Delhi in February 2017 and was a rousing success. The event gathered over 1,400 delegates from over 25 different countries and featured an opening keynote by the Honourable Shri Dharmendra Pradhan, the Minister of Petroleum and Natural Gas for India. The event highlighted the various government driven innovations and initiatives that have transformed the Indian market over the last few years turning it into the 2nd biggest consumer of LPG for domestic uses in the world.

Cooperation with the IGU

Our 2017 – 2019 strategic review highlighted the need for the LPG industry to seek out areas of cooperation with the natural gas industry, particularly with regard to energy access and advocacy for gas. The International Gas Union (IGU) is the global organisation representing the natural gas industry. As part of our 2017 action plan our cooperation with IGU deepened significantly with our involvement in two IGU committees – Gas Markets and Gas Strategy where in each we highlighted the important role of LPG in natural gas market development. In addition the LPG industry was assigned three full sessions in the three-yearly World Gas Conference that is scheduled to take place in June 2018 in Washington DC.
MARKET DEVELOPMENT

Support the developments of LPG markets.
The commitment to market development should be a high priority of each member of the LPG community. The role of the WLPGA in sharing best practices and developing synergies is essential for the long term success of our industry. As the Chair of WLPGA Market Development Goal, I am proud to steer these efforts.

GOKHAN TEZEL
CEO, AYGAZ
Chair WLPGA Market Development Goal

COOKING FOR LIFE

In 2017 Cooking For Life held three workshops in tandem with WLPGA Good Industry Practices workshops to highlight the policy challenges that exist to growing markets in developing countries. Successful workshops were held in Dhaka in February, in Maputo in July and in Lagos in December. All three workshops were well attended by delegates from local industry, government, NGO’s and media. Discussions focused on communicating global best industry and safety practices as well as showcasing examples from around the world that have been successful in increasing access to LPG and decreasing reliance on biomass for cooking. All three workshops were supported by local industry.

Cooking For Life, in cooperation with the Global LPG Partnership (GLPGP), organised the first LPG For Development (LPG4DEV) Summit which was held during the 30th World LPG Forum in Marrakech. The Summit sought to explore issues ranging from setting and delivering national LPG targets, to financing LPG for development and looked at markets that have successfully implemented innovative national-scale programmes that are revolutionising our industry and advancing clean cooking goals. The event was opened with a keynote address from Rachel Kyte, CEO of Sustainable Energy For All, pictured above right.
Cooking For Life launched the “LPG Policy Document” which is an analysis of how and why governments encourage the use of LPG in the domestic sectors using examples of policy from a selection of countries. The goal of this project was to create and present a report that is useful for governments, investors and other stakeholders that are seeking to develop safe and sustainable LPG industries in countries where LPG is little used.

**LPG INCENTIVES POLICY FOR DEVELOPING COUNTRIES**

Each year WLPGA dedicates resources to specifically support one market on Autogas. It was agreed that in 2017 this market would be Morocco. There is currently no Autogas in Morocco, although LPG consumption in the domestic sector is well developed, and there is no other alternative fuel in use for transport. WLPGA commissioned a research on the Moroccan market to better assess the favourable and unfavourable conditions for the introduction of Autogas and its potential. The findings of this research were used to initiate discussions amongst the main industry players. It also served as a basis for a preliminary talk with Mr Aziz Rebbah, the Minister for Energy, Mines and Sustainable Development of Morocco and his team in the context of the World LPG Forum in Marrakech.

WLPGA, in cooperation with AEGPL, also published the 2017 edition of the Autogas Incentive Policies report, covering 23 markets and providing key information on incentives for LPG and other alternative fuels. This report – the most detailed study of Autogas markets and policies ever prepared – seeks to explain why governments encourage switching to Autogas and how they go about doing so based on an in-depth survey of 23 of the world’s largest Autogas markets. It assesses what types of policies are most effective and why.

“Policies to phase-out highly polluting diesel cars are going to be very important for Autogas prospects.”

**DEVELOPING AUTOGAS MARKETS**

Contact: Cécile Nourigat
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@cecilioos
LPG POWER GENERATION
AS A MARKET DEVELOPMENT OPPORTUNITY

The working group on LPG for power generation was formed as part of a year-long project to examine the market opportunity for LPG and power generation and includes recommendations to the industry to help this sector realise its potential. Deliverables from this project included the scoping study entitled “Global LPG Power Generation: Market Development & Recommendations for Future Growth” which is an analysis of sector barriers and opportunities in selected target countries, a case study entitled “The Ideal Market for LPG Power Generation” which is an exploration of the key characteristics that make a country an ideal market for LPG Power Generation, and a communications campaign to help spread the word about the benefits of using LPG in power generation.

We at GE are appreciative of the effort and resources that WLPGA is putting into developing and promoting LPG as a feedstock for power generation. The Association’s focus on this area continues to be invaluable in raising awareness of the potential in this segment of the industry, which we feel will prove to be a strong growth area for the LPG industry in the future.

CHRISTOPH REIMNITZ
Global Structuring Leader
Gas to Power
GE Global Growth

Contact:
Michael Kelly
Deputy Managing Director
mkelly@wlpga.org
#cooking4life

LPG IS EASIER & LESS EXPENSIVE TO COMPRESS, SHIP & STORE THAN LNG

<table>
<thead>
<tr>
<th>LOCAL POWER</th>
<th>A PARTNER FOR RENEWABLE POWER:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPG POWER PLANTS CAN BE SET UP CLOSE TO WHERE ENERGY IS NEEDED, THEREBY AVOIDING ENERGY LOSS OVER POWER LINES, VIRTUALLY EVERY KW/H PRODUCED IS A KW/H USED</td>
<td>AN LPG POWER PLANT CAN BE COMBINED WITH WIND, SOLAR, HYDRO OR OTHER RENEWABLE SOURCES</td>
</tr>
</tbody>
</table>

THE BRIDGE POWER PLANT IN GHANA WILL HAVE A GENERATING CAPACITY OF 400 MWE IT WILL BE THE LARGEST POWER PLANT OF ITS KIND FUELED BY LPG

LPG FUELED POWER PLANTS ARE THE BEST SOLUTIONS FOR ISLANDS, REMOTE AREAS AND EMERGING ECONOMIES WITH NO OR LIMTED ACCESS TO NATURAL GAS

LPG FOR POWER GENERATION CAN ACT AS A “BRIDGE” UNTIL NATURAL GAS INFRASTRUCTURE IS BUILT AND SOME POWER PLANTS CAN EASILY BE CONVERTED

- LPG IS OFTEN MORE COST EFFECTIVE & ALWAYS CLEANER THAN DIESEL & OTHER FUELS THAT IT REPLACES
- NO₂: -30%  SO₂: -95%  GHG: -24%  -85% PER MWE COMPARED TO DIESEL
STANDARDS

Promote compliance with standards, good business and safety practices.
One of the most important challenges facing our industry is to ensure the LPG business everywhere is conducted on a level playing field with good standards and codes of practice that are applied by everyone. It is important that any illegal practices are removed from our industry to ensure a safe and sustainable future for our customers and shareholders. The role of good standards, through which we empower our business and perform to our customer’s expectations, cannot be overlooked.

And of course, we need to focus on the role of women and young people in our business to help develop new ideas at a time when the Internet of Things (IoT) is making valuable contributions to our industry. The work that the WLPGA is doing in all these important areas is vital, and I am proud to be leading this goal...

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**MAURICIO JAROVSKY**

Business Development Manager, ULTRAGAZ
Chair WLPGA Standards Goal

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**HNS**

The WLPGA attended meetings in London at the headquarters of the International Maritime Organisation (IMO) as an observer to the discussions on the International Convention on Liability and Compensation for Damage in Connection with the Carriage of Hazardous and Noxious Substances by Sea, 2010 (2010 HNS Convention), which will have a major impact on the global LPG industry when ratified.

Participation at the meetings not only protects the interests of the global LPG industry it also demonstrates the strong link between the WLPGA and the IMO as part of the WLPGA’s external communications programme with other global organisations.

WLPGA Director David Tyler and Osamu Uehira, Secretary General of the Japan LP-Gas Association, participated in formal and informal meetings during the year. The WLPGA has retained its observer status to these meetings until 2018.

A new tool to assist with the understanding and promotion of HNS was published during the year www.iopcfunds.org.

This HNS Incident Scenarios presentation has been developed by IMO, the IOPC Funds and the International Tanker Owners Pollution Federation (ITOPF) in close consultation with the International Group of Protection and Indemnity Associations (P&I Clubs) and is complementary to the brochure “The HNS Convention: Why it is Needed”. It includes an example with an LPG cargo.

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**STANDARDS HARMONISATION - ISO & UN**

WLPGA continued its work on ISO standardisation, and also preparing further involvement with other internationally used standards as ANSI, ASME, DOT etc.

The primary focus was activities on ISO TC 58 (Gas Cylinders), and also ISO TC22/SC41 which is related to the standardisation of the Autogas filling connector, a key enabler for the development of Autogas markets. In addition, given its increasing interest and potential links within the LPG industry, DME related standardisation was also monitored. At UN level, WLPGA continued its contribution to the UN Model Regulations, Sub-Committee of Experts on the Transport of Dangerous Goods.

Contact:

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GUIDELINES FOR GOOD BUSINESS AND GOOD INDUSTRY PRACTICES

The Guidelines for Good Business Practices in the LPG Industry was first published by the WLPGA ten years ago. The objective of the Guidelines is to provide LPG stakeholders with a tool for ensuring the marketplace and the consumer is not compromised by bad practices, and to enlist the support of government in establishing and enforcing policies and regulations that creates a safe, equitable and competitive environment.

The Guidelines have become flagship documents for controlling bad practices in the LPG industry and they have been revised this year to include the important role of the Internet of Things (IoT) in combatting illegal activities.

The WLPGA published two Guides to Good Industry Practices which focused on LPG Use in Waterborne Vessels and LPG Cylinder Filling.

GUIDELINES FOR GOOD BUSINESS AND GOOD INDUSTRY PRACTICES

The Guide for LPG Use in Waterborne Vessels addresses some of the challenges when using LPG in ships and boats. The use of LPG in ships is being discussed at a time when there is a great deal of attention on diesel emissions and pressure has been put on the sulphur levels in maritime fuels such as marine gas oil and marine fuel oil following intervention by the IMO.

The Guide to LPG Cylinder Filling looks at some of the important issues when considering investment in assets to fill LPG cylinders. From simple manually operated filling plants to fully automated ones. Other WLPGA Guides published recently, that focus on some of the important areas of the LPG business, include topics such as LPG Cylinder Management, Bulk LPG Road Tanker Management and establishing an LPG Association.

IN-COUNTRY WORKSHOPS

WLPGA held two in-country Good Industry Practice workshops in Bangladesh and Mozambique. The objective of these workshops was to identify some of the more common business practices that are presenting a challenge to the safe and sustainable growth of the LPG industry in those countries and then develop an agreed plan of action to improve conditions. An issue that was common to both workshops was the management of LPG cylinders.

The WLPGA Guide to Cylinder Management, first published four years ago, features strongly in most of the in-country workshops that the WLPGA runs. The WLPGA Guidelines and Guides to Good Industry Practice form the basis for the workshop material and demonstrates the WLPGA’s objective of ‘walking the talk’ with this very important topic.

STANDARDS
Since its inception the WINLPG network has made a great deal of positive progress. It is an exceptionally encouraging start to what is a major network with long term goals. Hopefully over the next 12 months through our planned global activities and closer liaison with the National Chapters, we will really start to see the Network develop by reaching the people that really matter through two way communication channels that will be initiated across all sectors and at all levels within individual businesses. These are exciting times for diversity in our business.

NIKKI BROWN
WINLPG Chair 2015-2017

WOMEN IN LPG GLOBAL NETWORK (WINLPG)

WLPGA identified that there was a clear opportunity for the global LPG industry to take medium and long term actions that can address the issue of attracting, retaining and developing women, and young talent, to the LPG industry. As the authoritative voice for the global LPG industry, WLPGA is uniquely positioned to develop and implement these actions.

WLPGA launched Women in LPG Global Network (WINLPG) in September 2015. The network’s mission is to support and help empower women in the worldwide LPG Industry by leadership, coaching, mentoring and promoting role models. WINLPG aims to bring women, and men, together across all business sectors, ages and levels to discuss and support the development of diversity within the LPG Industry.

WINLPG has three pillars of objectives; to support and retain women already in the industry through a network in which women can further their professional development and access colleagues and mentors; to promote role models and case studies via media and at industry events; and in the more longer term, to work with universities to educate and attract talent to the industry.

WINLPG membership is free and open to all. To join simply visit the WLPGA website, search WINLPG and complete the online form.

The network is managed by Alison Abbott, Communications Director, WLPGA.

WINLPG 2017 ACHIEVEMENTS IN FACTS AND FIGURES

511
MEMBERS

3
NATIONAL CHAPTERS
IN SOUTH AFRICA,
NIGERIA AND INDIA

5
CORPORATE AND INDIVIDUAL
AMBASSADORS WHO LEND THEIR
SUPPORT TO THE NETWORK

3
WORKSHOPS IN 2017
IN SOUTH AFRICA,
INDIA AND THE UK

16
MOTIVATIONAL ROLE
MODEL PROFILES
AVAILABLE ONLINE

ACTIVE SOCIAL MEDIA CAMPAIGN
ON LINKEDIN AND TWITTER
FOLLOW US ON @WINLPG
One could never emphasise enough the strong connection between innovation, technology development, market development and commercialisation. In WLPGA, we start looking at opening market sectors with our innovation and technology reports and we are excited again this year with the two excellent reports we produced on LPG for Marine Engines and on Synthetic Natural Gas, SNG.

We should all have our minds open on innovation, this is the key today to making our business survive for the next 20 years. When we talk to our customers, we hear that LPG is the fuel their grandfathers used, the fuel their fathers used and we need to make sure that this is the fuel their grandchildren will also use. Innovation is about the fuel, the engines, the machines and equipment that use it. Everyone should think all the time how to innovate and the excellent Global Technology Conference GTC2017 in Marrakech made also part of all this.

TUCKER PERKINS
Chief Executive Officer, Propane Education & Research Council, USA
Chair WLPGA Innovation & Technology Goal

IN SEARCH OF NEW TECHNOLOGIES TO GUIDE FUTURE OPPORTUNITIES

The Innovation and Technology Network WLPGA Matrix Goal aims to stimulate industry growth through the promotion of new innovation and technologies. In 2017, two new reports were produced: "LPG for Marine Engines, The Marine Alternative Fuel" and "SNG, Synthetic Natural Gas". In addition, a 2017 update of the "Heavy Duty LPG Engines" was also issued. Other networking activities such as coordination with past topics such as fuel quality, and composite cylinders, and new ones to come as Bio-LPG, Hybrids, DME and Fuel Cells continued in parallel.

LPG FOR MARINE ENGINES, THE MARINE ALTERNATIVE FUEL
This extensive report "LPG for Marine Engines, The Marine Alternative Fuel" aims at promoting understanding, amongst the LPG industry, and beyond, of the technical possibilities, applications and market potential of LPG as a marine fuel. It also informs the LPG community of the current developments in the gaseous fuel market, the numerous opportunities in the various related segments, and recommends actions for the LPG industry to take, in order to pave the way for a take-up in the marine routes. The report includes a scan of marine LPG and other gas engine technologies and markets, that can, or could, use LPG as a fuel, and lists all related marine commercial, passenger and recreational vessel segments highlighting the most promising ones for the future.
SYNTHETIC NATURAL GAS (SNG),
THE LPG OPPORTUNITY
A second report, “Synthetic Natural Gas (SNG), The LPG Opportunity”
details a well-established technology with no significant technical barriers, supported by LPG distribution networks almost everywhere. An LPG application in a niche market but seemingly with great regional opportunities. Similarly, this report aims also at promoting understanding amongst the LPG industry of the technical possibilities, applications and market potential of SNG and at informing the LPG community of the opportunities that SNG offers in the various related segments. The report includes a snapshot of the market for SNG systems primarily in Asia, USA, Japan and other parts of the world, covering commercial, industrial and utilities sectors, while focusing also specifically on power generation as an application particularly suited to SNG. It contains a fact sheet for each SNG technology, a roadmap as well as recommendations on how to overcome the barriers and maximise market opportunities.

EXCEPTIONAL ENERGY IN ACTION (EEIA) –
THE ONLINE LPG APPLICATIONS DIRECTORY

EEIA continued to be enhanced with new application pages and materials. Three promotional videos were produced, “LPG Fork Lift Trucks, Power Without Pollution”, “LPG on Safari-Outdoor Living”, and “Remote Cooking, Indonesia” with more to come. The new WLPGA Corporate D membership scheme, which is aimed at LPG appliance manufacturers, attracted many new members in 2017. Companies wishing to become members under this new scheme with free membership for the first year, are invited to contact WLPGA. EEIA will continue to be a prime activity with focus on additional commercialisation and sponsoring plans.

Visit Exceptional Energy in Action at www.lpg-apps.org and follow us on @LPGapps
GLOBAL TECHNOLOGY CONFERENCE (GTC2017)

Each year, the LPG industry is invited to submit abstracts showcasing some of the most innovative and promising technology. This year submissions and presentations included topics such as an LPG urban bus, Cook as You Go smart metering technology, power generation with LPG, SNG systems, 2-stroke LPG outboard engine, cylinder level measuring systems, tri-generation, new containment membrane for LPG carriers and many more. This was a record year with 32 submitted abstracts competing for presentation. All the papers presented were selected by the GTC steering committee based on a list of agreed criteria including degree of technical innovation, safety improvement potential, operational efficiency, commercial, marketing potential etc.

The promotional interviews of the presenters introduced last year, continued also in 2017, together with the provision of facilities for display of innovation samples and equipment after the presentations.

THE GTC2017 MARRAKECH AWARD WINNERS WERE:
Winner: Begas / Repsol, Environmental Friendly Euro-6, Fully Autogas-Powered Urban Bus
Runner-ups: Tim Bauer, Envirofit and Sebastian Rodriguez, KopaGas, for Pay As You Cook

WLPGA also took responsibility for the selection process of the technology innovation abstracts for presentation in the World Gas Conference (WGC) which will take place in Washington DC in 2018.

TWO NEW TRAINING MODULES

Two new training modules were released focusing on the properties, characteristics and specification of LPG. They are designed to be used by members to ensure their staff have basic product knowledge. The material comes with training notes and with a multi choice questionnaire.

Although the WLPGA conducts training workshops as part of its knowledge transfer goal the release of this material allows members to conduct their own training programmes and have the messages delivered in a consistent manner. In addition to making the training material available to members the WLPGA also runs training workshops on request. Three of these were held this year in Indonesia, Kenya and Bangladesh.

INNOVATION & TECHNOLOGY

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@LPGapps

GLOBAL TECHNOLOGY CONFERENCE

Award winner ceremony from left to right: James Rockall of WLPGA, with Tim Bauer of Envirofit and Sebastian Rodriguez of KopaGas, joint runner up winners for “Pay As You Cook” smart metering innovation, followed by Ignacio Dietta Sanz representing Begas and Repsol, the GTC2017 award winners for “Environmental friendly Euro-6, fully Autogas-powered urban bus”.

GRADE DEFINITION

LPG: Liquefied Petroleum Gas
Commercial Propane
Commercial Butane
LPG Mixtures
IN BRAZIL

95% OF HOUSEHOLDS USE LPG AS COOKING FUEL
2017 EVENTS OVERVIEW

The WLPGA organised, or supported, the following industry events around the world during 2017:

**JANUARY**
- LPG Indonesia 2017 - Jakarta, Indonesia
- Argus Americas LPG Summit - Houston, USA

**FEBRUARY**
- WLPGA Board, Industry Council & Matrix Day - New Delhi, India
- WLPGA 2017 Asia LPG Summit - New Delhi, India
- Argus Africa LPG Summit - Cape Town, South Africa
- 4th Asia LPG Summit - Dhaka, Bangladesh
- WLPGA Cooking For Life Workshop - Dhaka, Bangladesh

**MARCH**
- International LP Gas Seminar - Tokyo, Japan
- 22nd China LPG Conference - Chengdu, China
- CDC Global Health Roundtable - Atlanta, USA
- International Gas Union Strategy Committee - Madrid, Spain
- International Gas Union Gas Markets Committee - Lisbon, Portugal
- IEA workshop – Energy & Air Quality - Paris, France
- 32nd AIGLP Congress - Buenos Aires, Argentina

**APRIL**
- IHS International LPG Seminar - Houston, USA
- Polish LPG Conference - Warsaw, Poland
- 2nd Argus Iran Commodity Week - Tehran, Iran
- NPGA South Eastern Convention - Nashville, USA
- IOPCF HNS Meetings - London, UK
- 4th LPG Philippines Forum - Manila, Philippines
- Argus LPG Moscow - Moscow, Russia

**MAY**
- WLPGA Training - Nairobi, Kenya
- Stanford University Gas Roundtable - San Francisco, USA
- Vision in Energy LPG Event - Johannesburg, South Africa
- UKLPG Annual Conference - Birmingham, UK
- DVFG Annual Conference - Berlin, Germany
- LPG Myanmar Conference & Exhibition - Yangon, Myanmar

**JUNE**
- ADB Climate & Clean Energy Forum - Manila, Philippines
- WLPGA Board, Industry Council & Matrix Day - Lisbon, Portugal
- AEGPL Annual Congress - Lisbon, Portugal

**JULY**
- WLPGA Cooking For Life Workshop - Maputo, Mozambique
- 4th Africa LPG Summit - Johannesburg, South Africa
- IHS Asia LPG Seminar - Singapore

**OCTOBER**
- WLPGA Board, Industry Council & Matrix Day - Marrakech, Morocco
- 30th World LPG Forum - Marrakech, Morocco
- La nueva realidad de la Industria del Gas LP en México - Mexico City, Mexico
- International Gas Union Annual Meeting - Tokyo, Japan
- IOPCF HNS Meetings - London, UK
- Global Alliance for Clean Cookstoves Clean Cooking Forum - New Delhi, India
- LNG Solutions: Fueling the Future Summit - Nice, France

**NOVEMBER**
- UN Framework Convention on Climate Change, COP 23 negotiations - Bonn, Germany
- IHS Latin American Seminar - Panama City, Panama
- Argus LPG & Petrochemical Feedstocks - Singapore

**DECEMBER**
- Argus European Markets - London, UK
- Nigeria LPG Association Annual Conference - Lagos, Nigeria
- WLPGA Cooking For Life Workshop - Lagos, Nigeria
WLPGA ORGANISATION

BOARD OF DIRECTORS

The WLPGA team is supported and assisted by the Board of Directors and the Industry Council. This ensures that members are fully represented in the activities and strategies of the association whilst also ensuring that the WLPGA can truly speak as a unified and coherent voice of the industry.

The WLPGA Board is composed of a President, a First Vice-President, a Treasurer, three Vice-Presidents and up to five other Board members. The current Board was elected at the Annual General Assembly of October 2017 in Marrakech, Morocco. The Board composition is representative of the business activities and geographic diversity of members.

The Board meets three times a year to agree the budget and approve the accounts for ratification by the General Assembly. The Board has an overall governance role for the association as defined under French law.

Pedro Jorge Filho
WLPGA President
Managing Director, Ultragaz
(Brazil)

Henry Cubbon
WLPGA First Vice-President
Managing Director, DCC Energy LPG
(United Kingdom)

Davide Cavagna
WLPGA Vice-President
CEO, Cavagna Group
(Italy)

Blaise Edja
WLPGA Vice-President
General Manager, LPG Oryx Energies
(Switzerland)

Sanjiv Singh
WLPGA Vice-President
Chairman, Indian Oil Corporation
(India)

Yağız Eyüboğlu
WLPGA Board Member
President – Energy – Koc Holding A.S.
(Turkey)

Fulco Van Lede
WLPGA Board Member
CEO, SHV Energy
(The Netherlands)

Jae Hoon Lee
WLPGA Board Member
President, SK Gas
(South Korea)

Osamu Masuda
WLPGA Board Member
President, LPG Center
(Japan)

Roger Perreault
WLPGA Treasurer
President, UGI International
(USA)

David Rodriguez
WLPGA Board Member
Vice President Liquefied Petroleum Gas
Department, Global Businesses Division, Total
(France)
The WLPGA Industry Council was inaugurated in 1996 and is composed of leading companies in the LPG business. The Industry Council directs the Association’s actions by identifying issues, developing strategies, and formulating projects. The Industry Council also makes recommendations to the WLPGA Board of Directors.

Actions launched by the Industry Council aim at enhancing the positive image of LPG worldwide and promoting LPG use to satisfy the growing need for an all-purpose, efficient and environmentally friendly fuel. Whether focused on specific market segments or the LPG industry in general, the Industry Council’s actions are designed to increase the worldwide use of LPG.

In 2017 the Industry Council group was enlarged to include more companies, with a new cap set at 40 companies. The Industry Council welcomed seven new members, making a total of 33 Industry Council members.
THE WLPGA TEAM

From left to right:

Cécile Nourigat
Autogas Manager

Alison Abbott
Communications Director

Michael Kelly
Director Market Development and Deputy Managing Director

Esther Assous
Events Director

Camille Pieron
Communications Coordinator

Nikos Xydas
Technical Director

James Rockall
CEO and Managing Director

Laurence Poret
Office Manager and Member Relations Manager
31st World LPG Forum
2-4 October 2018
Houston
Tomorrow’s Energy Today
Stay tuned & visit the website
www.worldlpforum2018.com