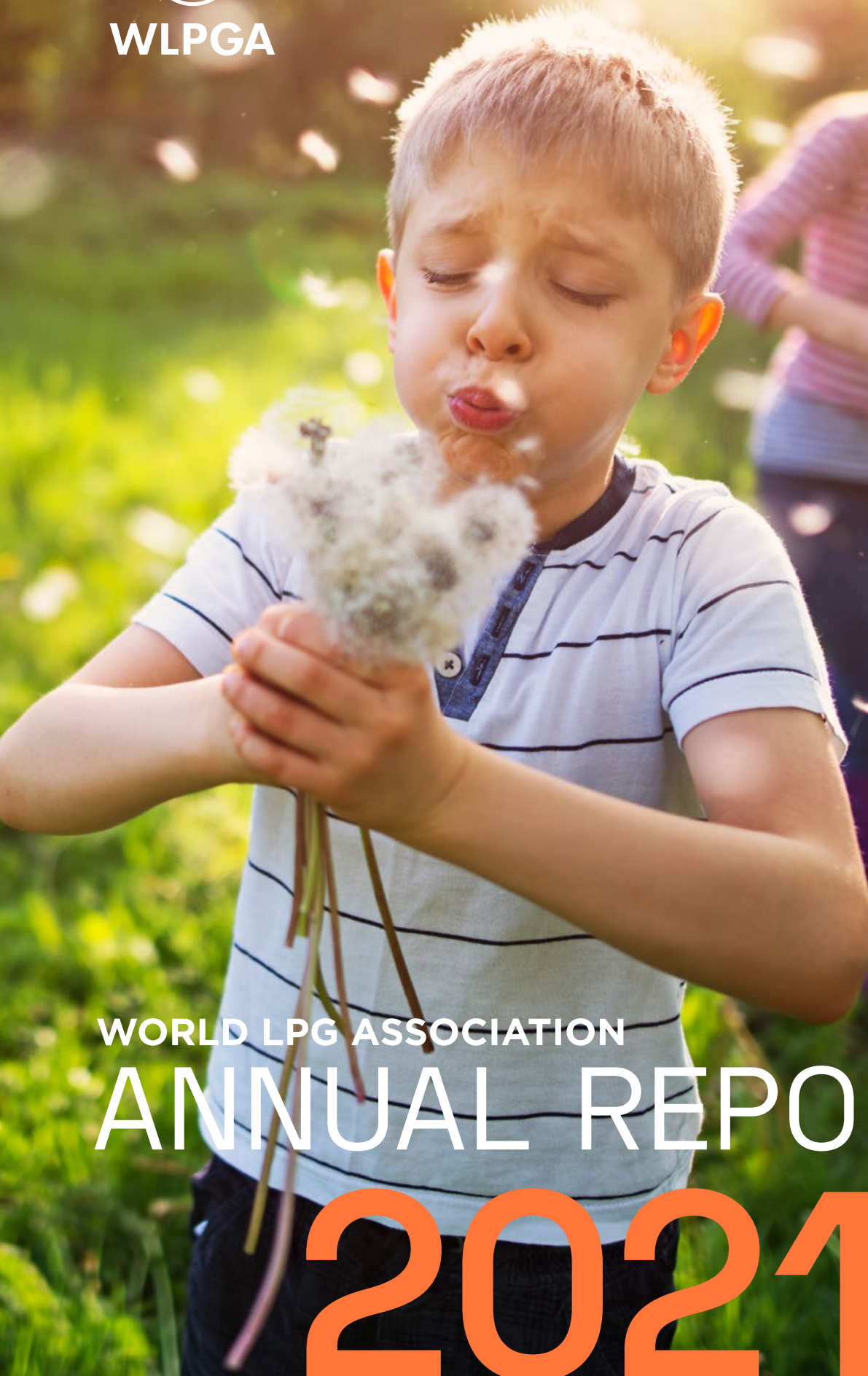




WLPGA



WORLD LPG ASSOCIATION

ANNUAL REPORT

2021



CONTENTS



04 About WLPGA	22 Advocacy
05 Key Activities	24 Business Improvement
06 Foreward from President	32 Innovation & Growth
08 Production	38 Communications
09 Managing Director's Report	42 LPG Week
10 Charter of Benefits	48 Board of Directors
11 The global LPG industry in 2021	49 Industry Council
12 Benefits for Members	50 WLPGA Team
16 Membership	51 Keep up with WLPGA
18 2021 Key Publications	

ABOUT WLPGA



The WLPGA is the authoritative voice of the global LPG industry representing the full LPG value chain. The primary goal of the association is to add value to the sector by driving premium demand for LPG, while also promoting compliance to good business and safety practices.

The WLPGA brings together over 300 private and public companies operating in more than 125 countries, involved in one, several, or all activities of the industry; 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 & Social Council in 1989.

WLPGA also develops long standing partnerships with other international bodies such as various departments of the UN, the World Health Organization, Regional Development Banks and a number of well-respected international NGOs such as the Partnership on Clean Indoor Air (PCIA), the Clean Cooking Alliance and E+Co. The geographical spread and diversity of the WLPGA's membership makes the association a representative, trusted and logical partner in international discussions.



VISION

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



MISSION

The WLPGA mission statement forms the three principal goals of the WLPGA in this period, namely: Advocacy (ADV); Business Improvement (BIM); and Innovation & Growth (IGO).











KEY ACTIVITIES

The core activities of the WLPGA are covered in three key goals:

 <p>Advocacy (ADV)</p> <p>To advocate LPG as part of the solution to future energy challenges.</p>	 <p>Business improvement (BIM)</p> <p>To support efficient and responsible business.</p>	 <p>Innovation & Growth (IGO)</p> <p>To encourage innovation and support business growth</p>
--	--	--

Top opportunities and threats to the industry according to members:

<h2>OPPORTUNITIES</h2> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>FUEL SWITCHING</p> </div> <div style="text-align: center;">  <p>AIR QUALITY</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="text-align: center;">  <p>CLIMATE CHANGE</p> </div> <div style="text-align: center;">  <p>APPLICATIONS</p> </div> </div>	<h2>THREATS</h2> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="text-align: center;">  <p>ELECTRIFICATION</p> </div> <div style="text-align: center;">  <p>RENEWABLES</p> </div> </div> <div style="text-align: center; margin: 10px 0;">  <p>DECARBONISATION</p> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>POOR PERCEPTION</p> </div> <div style="text-align: center;">  <p>LACK OF AWARENESS</p> </div> </div>
---	---

FORWARD

FROM THE WLPGA PRESIDENT



A year ago we thought the pandemic would be easing and we would be getting back to business, but it seems we are some way from that. Indeed, in many countries we are seeing further impacts of COVID-19 coming through disrupted supply chains for LPG and the equipment and vehicles we require, as well as tightening labour markets.

At the same time, and despite these challenges, we continue to prove the resilience and agility of our industry. We have maintained supply of LPG to the remotest areas and become more sophisticated in how we work with customers by digitalising their experience. This capability will certainly ensure that LPG is recognised as critical energy source off the gas grid as policy makers look to the future. And future thinking is rightly dominated by how we must limit the impact of climate change and improve air quality and do this in a just way so that all communities are treated fairly. Driven by the recent COP26 event in Glasgow, National governments, state governments and city mayors in over 180 countries are converting COP26 commitment into local regulation and policy to reduce carbon output.

And for many years we in our industry have presented LPG as a cleaner, lower carbon fuel. We have promoted LPG as a means of limiting deforestation, and reducing the use of coal, diesel and petrol which each have a negative impact of public health. And more recently, we have taken this further by developing renewable LPG which positions our industry as part of the long-term responsible energy solution.

However, as the pressure to reach net zero increases, we cannot just rely on our reputation and past success as an industry. Policy makers desperately need to understand how the energy mix can evolve, and over the next few years will be setting out regulatory frameworks which will dictate which energy sources will be favoured. It is here where we must work together as an industry to advise and inform governments who risk seeing electrification as the only answer. Our view is that a mixed approach is the right way which must include LPG and bio, renewable LPG in the eventual energy mix.

The good news is that we have the WLPGA to take the lead here on behalf of members, and I am pleased to report that the team are doing an outstanding job. They have been actively working with national and regional associations in supporting their local lobbying activity, and have been constantly engaged with key global NGOs in pushing the case for our industry. Whilst travel has been restricted over the last twelve months, there has been no limit to their connectivity with our industry on all continents, and this was all showcased when the industry united in Dubai in December.

And one particular success I would like to highlight is the launch of the Youth Council which has taken off at some speed. It is the next generation who will be taking our industry through to net zero by 2050, and I am delighted to see how energised they are.

However, we cannot always sit back as members and leave it to the WLPGA. Your continued support for the various working groups is much appreciated, as is your commitment to local trade associations. I am convinced that the payback on your time and investment will significant – not just today but also longer term. Indeed, we are having to mobilise now like never before given the challenges and opportunities we face, and I would encourage all participants in our industry to consider what more they can do.

We all need to reassure LPG consumers that they are using a great product with a bio-renewable pathway, and we must not take for granted that they know this. We must also engage with our own people and set out what a great future our industry has, and ensure we have a younger and diverse team in place to deliver this.



Finally, we must continue to benefit from being part of the WLPGA, contribute and get involved, and take this back to you own organisations. With the benefit of Zoom I believe that over the last 12 months we have communicated better than ever before and learned much from each other. A great example being the industry in New Zealand using work done in Europe on bioLPG pathways, to position LPG in a consultation on banning gas boilers.

Lastly, as I come towards the end of my presidency, I would like to give special thank you to James and the team at the WLPGA. They have successfully navigated the challenges of the last 18 months, have raised the quality and quantity of their output even further, and have added significant value to our industry all without missing a beat. Seeing this all come together in Dubai was arguably one of the most important events in our history given the challenges and opportunities we face.

Henry Cubbon
President, WLPGA

“And one particular success I would like to highlight is the launch of the Youth Council which has taken off at some speed. It is the next generation who will be taking our industry through to net zero by 2050, and I am delighted to see how energised they are.”



PRODUCTION

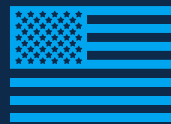
IN OVERALL
PRODUCTION

 **-1.36%**

PRODUCTION
IN THE US & CHINA
INCREASED BY

+3.4%

+9%



PRODUCTION
DECLINED IN MOST
OTHER COUNTRIES



GLOBAL
PRODUCTION



329 MILLION
TONNES

REPORT FROM THE

WLPGA MANAGING DIRECTOR



For some, 2021 was a year of recovery from COVID-19, while for others the impacts of the pandemic became even more marked. As the world continued to struggle with the ongoing effects of Covid, the LPG industry continued to do its job – to provide reliable, safe and secure heat and warmth to families across the world. As society has struggled to adjust to new measures, the LPG industry has remained an essential energy across the world. Our sales volumes in many cases are up, our reputation remains enhanced, and importantly the opportunities for the future, as we finally emerge from the pandemic, are looking good. Despite being restricted in travel and meetings, our association has also effectively adjusted. We have pivoted to take maximum advantage of web-based tools, we have held multiple webinars, on-line workshops, and virtual working group meetings, and it's fair to say that we are now closer to our members than ever before.

“WLPGA will continue to identify opportunities to promote LPG both as a critical part of the post-COVID energy mix but also as a clean, low-carbon fuel in the global energy transition.”

2021 marked the second year of a three-year plan entitled “Solutions for a responsible energy future” with our activities grouped under three goals – Advocacy, Business Improvement, and Innovation & Growth. Great progress has been made in each of the areas with highlights being: the hosting of a global LPG communications summit; the creation of a Youth Council of members; the revamping of our publication on digitalisation in the sector and the multiple outcomes from our renewable LPG working group. This latter activity has consumed a great deal of time and resources but the development of a credible

pathway to low and zero carbon LPG is vital for the positive future of our sector.

As we close out 2021 and look to next year, our industry is being impacted by two major themes: The post Covid-19 recovery and the global energy transition. These two themes are linked. Both provide opportunities for our sector but can also be viewed as threats if we do not respond appropriately. WLPGA will continue to identify opportunities to promote LPG both as a critical part of the post-COVID energy mix but also as a clean, low-carbon fuel in the global energy transition. At the same time, we must ensure that we avoid regulations that could negatively impact our sector across the world.

As we look to 2022, a great deal of uncertainty remains. What hasn't changed is the exceptional nature of our industry and the strong and dedicated support of the WLPGA to realising the new and emerging opportunities for our membership. In this future, the role of WLPGA and its network of national and regional associations has never been more important. The WLPGA is unique. We are the global voice of the LPG industry, and we consistently deliver value to our members and the LPG sector more broadly.

As we bring this year to an end it also a huge honour to have been recognised by the Association of Association Executives as the 2021 International Association of the Year. That WLPGA won in the face of tremendous competition from across the world is testimony to the professionalism and effectiveness of the WLPGA. There has never been a better time to be in the LPG industry and never a better time to be a member of the WLPGA. Whatever your business; join us, contribute, and benefit from our leading global LPG network.

James Rockall

CEO and Managing Director, WLPGA

jrockall@wlpga.org

[@james_rockall](https://twitter.com/james_rockall)



THE ASSOCIATION AWARDS | International & European 2021

WINNER

International Association of the Year



World LPG Association



WLPGA has capped off 2021 by winning the prestigious 'Best International Association of the Year' award. The International & European Association Awards are organised by the Association of Association Executives. This is a great achievement for your association in what is a very competitive global award. Our team is rightly proud of our achievement.



LPG
EXCEPTIONAL
ENERGY

SIX PILLARS OF THE CHARTER OF BENEFITS



HEALTH



CLIMATE



ECONOMIC GROWTH
& SOCIAL PROGRESS



RESOURCE
EFFICIENCY



EFFICIENCY



ENERGY FUTURE

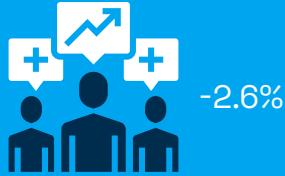
THE GLOBAL LPG INDUSTRY IN 2021

SUPPLY



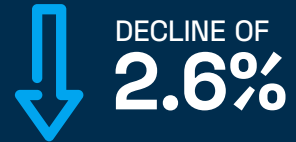
329.4 MILLION TONNES

DEMAND



316.9 MILLION TONNES

CONSUMPTION



TOP 3 MARKETS

1. CHINA
2. US
3. INDIA

SOLID CHEMICAL SECTOR DEMAND



28% OF TOTAL LPG DEMAND

+4.7%



INDIA'S DOMESTIC DEMAND REMARKABLY GREW TO 24.5M TONNES



TOP 3 PRODUCERS

1. US
2. CHINA
3. SAUDI ARABIA

-2.3%



THE DOMESTIC SECTOR

SHOWED GREAT RESILIENCE WITH A SMALL DROP AT GLOBAL SCALE AND GROWTH IN SEVERAL MARKETS



AUTOGAS FLEET GREW TO

27.6

MILLION VEHICLES



GLOBAL AUTOGAS CONSUMPTION

↓ **10.4%**

IN 2020 BECAUSE OF LOCKDOWNS



AUTOGAS MARKET

SOUTH KOREA
TURKEY
RUSSIA



MORE AUTOGAS CARS

WERE ADDED THAN ELECTRIC CARS

BENEFITS FOR MEMBERS

The WLPGA is the ONLY 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, so whatever part of the sector you are engaged with, there will be always some major benefit to your organisation. Simply put, if you are involved in the LPG industry, then membership of WLPGA should be part of your strategy. The key benefits of membership can be summed up under five headings: Network; Information; Education; Influence; and Credibility.



NETWORK

WLPGA is a constantly growing leadership network with over 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 Member Engagement Meetings



The Member Engagement Meetings are held three times a year and offer members a full day of discussion on specific topics under the three key goals which are Advocacy, Business Improvement, and Innovation & Growth. The Member Engagement Meetings allow members the opportunity to share of ideas, processes and new technologies to ultimately enable the development of the entire LPG community and identify focus areas for the industry.

“ 2021 was a very difficult year for everyone, not only because of COVID-19 but also because of all subsequent changes and challenges. WLPGA adapted its role during this uncertain environment, highlighting the importance of a storable and available energy during critical times but keeping the safety of the operations as its main priority.

At Amtrol-Alfa | Worthington Industries, we managed to guarantee the supply chain of our global LPG partners, during the pandemic crisis assuring that this important energy was available. We believe in WLPGA to lead the industry, through the current energy turmoil, to a sustainable future.

”

Tiago Oliveira, General Manager, Amtrol-Alfa | Worthington Industries



LPG Week



Arguably the most important event in the LPG calendar, LPG Week regularly attracts hundreds of exhibitors and thousands of delegates each year. LPG Week comprises a week of unrivalled events offering exceptional opportunities to network, exchange, and do business. 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. WLPGA members are entitled to significant discounts whether you wish to exhibit, or attend the event.



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 seven national chapters in Colombia, India, Kenya, Myanmar, Nigeria, South Africa and USA. WLPGA members have privileged access to the network.



INFORMATION

Communications remain at the heart of all WLPGA's activities. WLPGA aims to inform and educate all stakeholders about the benefits of LPG. 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.

Business Contacts for Members

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, 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 departments in the UN, including Sustainable Energy For All, the World Bank, Regional Development Banks, and a number of respected international NGO's such as the Clean Cooking Alliance. The geographical spread and diversity of 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.

For more information contact Audrey Ginsz (aginsz@wlpga.org).

2021 MEMBERSHIP

2A Muhendislik San. Tic. A.S., Turkey	Aircraft Manufacturing Co., Ltd, China	Ghana Cylinder Manufacturing Company (GCMC), Ghana
Abastible SA, Chile	Circle Gas, United Kingdom	Ghana Oil Company Limited, Ghana
Abragas, Brazil	Clean Air Asia, Philippines	Global LPG Partnership, United States
Aburi, United Kingdom	Clean Cooking Alliance, United States	Gok Regler - Und Armaturen GmbH & Co. KG, Germany
Africare, Nigeria	Copagaz Distribuidora de Gas Ltda, Brazil	Grassroot Trading Network for Women (GTNFW), India
Afriquia Gaz, Morocco	Coral Gas, Greece	Gujarat University, India
Afrox, South Africa	Corken Inc, United States	Gyxis, Japan
Aggreko, United Kingdom	Dashvaanjil Co Ltd, Mongolia	Hangzhou Yuhang Zhangshan Steel Cylinder Co. Ltd, China
AIUT, Poland	DCC LPG, Ireland	HEDON Household Energy Network, United Kingdom
Algas-SDI, United States	DEC/Design Engineering & Consulting, Belgium	Hexagon Ragasco A.S., Norway
Altinboga Gas Equipments, Turkey	Department of Petroleum Resources Nigeria, Nigeria	Hindustan Petroleum Corporation Ltd, India
Amtrol-Alfa div. of Worthington Industries, Portugal	Dorian LPG, United States	Hong Kong & China Gas Co Ltd, China
Anova, United States	Durulsan Makina LPG Celik, Turkey	Hubei Daly LPG Cylinder Manufacture, China
APR Energy, United States	DVFG, Germany	IHS, United States
Arcosa Industries de Mexico, Mexico	E.ON Masdar Integrated Carbon Ltd. (EMIC), United Arab Emirates	Indian Auto LPG Coalition , India
Arcosa Tank, United States	E1 Corporation, South Korea	Indian Oil Corporation Limited, India
Argus Media, United Kingdom	Elaflex, Germany	Industrial Ochoa SA de CV, Mexico
Arhan Grup Talasli Imalat San. Ve Tic. Ltd. Sti. Orgaz, Turkey	Elgas Limited, Australia	International Chamber of Commerce, France
Asociacion Iberoamericana de Gas Licuado de Petroleo (AIGLP), Brazil	Elpiji (M) SDN. BHD, Malaysia	International DME Association, United Kingdom
Association of Oil Marketing Companies (AOMC), Ghana	Emarat, United Arab Emirates	International Fertilizer Industry Association (IFA), France
Assogasliquidi Federchimica, Italy	Emirates Gas LLC, United Arab Emirates	International Gas Union, United Kingdom
Astomos Energy Corporation, Japan	Empresas Lipigas, Chile	IPIECA, United Kingdom
Aygaz A.S., Turkey	Eneos Globe Corporation, Japan	Isla LPG Corporation, Philippines
Bangladesh University of Engineering & Technology, Bangladesh	Energy 4 Impact, United Kingdom	ITO Corporation, Japan
Bashundhara LP Gas Limited, Bangladesh	Energy Distribution Partners, United States	Iwatani International Corp., Japan
BB Energy Asia Pte Ltd, Singapore	Energy Market Regulatory Authority of Turkey, Turkey	Jamuna Spacetech Joint Venture Limited, Bangladesh
Belhasa Loistic Services, Dubai	Entrepreneurs du Monde, France	Japan LP Gas Association, Japan
Bergquist Inc, United States	Envirofit International, United States	JMI Industrial Gas Limited, Bangladesh
Beximco Petroleum Ltd, Bangladesh	Equinor, Norway	JOGMEC, Japan
BGN, UAE, BAYEGAN	EURO LPG B.V., Netherlands	Jordan Petroleum Refinery, Jordan
Bhachu Industries Ltd, Kenya	Euthalia, Italy	Kautex Maschinenbau GmbH, Germany
Bharat Petroleum Corporation Limited, India	FAS Flussiggas-Anlagen GmbH, Germany	KCME Co for Gas Installation & Contracting, Kuwait
Blackmer, United States	Ferrellgas, United States	Koagas Nihon CO, LTD, Japan
Blossman Gas Inc, United States	Finngas GmbH, Germany	Korea Gas Safety Corporation, South Korea
Blue Star Gas, United States	FIPI - Federation of Indian Petroleum Industry, India	Korea LPG Association, South Korea
BM Energy (BD) Limited, Bangladesh	Fisher LP Gas Equipment, United States	Kuwait Oil Tanker Co. K., Kuwait
Brothers Gas, United Arab Emirates	France Gaz Liquides, France	Laugfs Gas Plc, Sri Lanka
BW Epic Kosan, Singapore	Friedrich Scharr KG, Germany	Laurus Industries Pvt. Ltd., India
BW LPG, Singapore	Gas to Health Initiative GTHI, Nigeria	Levgas SARL, Monaco
Caisse de Stabilisation des Prix des Hydrocarbures, Cameroon	Gasco GLP, Chile	Liquid Gas Europe, Belgium
Camara Uruguaya de Gas Licuado, Uruguay	Gasco Saudia Arabia, Saudi Arabia	Liquid Gas United Kingdom, United Kingdom
Canadian Propane Association, Canada	Gasnova , Colombia	Liquigas Distribuidora, Brazil
Carbon Clear, United Kingdom	GasStop Europe BV, Netherlands	Liquigas Power Private Limited, India
Cavagna Group, Italy	Gavedra, Portugal	Litro Gas Lanka Limited, Sri Lanka
Central Gas Jordan, Jordan	Gaz Transport & Technigaz, France	Lloyd's Register, Greece
Chemet SA, Poland	GE GasPower, United States	LoW8, Netherlands
CIMC Enric Jingmen Hongtu Special	General Index, United Kingdom	LP Gas Center, Japan (LPGC), Japan
	Geogas Trading SA, Switzerland	

LP Gas Safety Association of South Africa (LPGSASA), **South Africa**

LPG Association of New Zealand, **New Zealand**

LPG Operators Association of Bangladesh, **Bangladesh**

Makeen Energy, **Denmark**

Maldives Gas, **Maldives**

MAN Energy Solutions, **Denmark**

Manchester Tank & Equipment, **United States**

Marshall Excelsior Co., **United States**

Mauria Udyog Limited, **India**

Ministry of Energy, Ghana, **Ghana**

Ministry of Mines and Petroleum of Ethiopia, **Ethiopia**

Ministry of Petroleum Resources, Nigeria, **Nigeria**

Muscat Gas Co, **Oman**

Nacional Gas Butano Distribuidora Ltda, **Brazil**

Natgaz, **Lebanon**

National Economic Empowerment council, **Tanzania**

National Gas Company - SAOG, **Oman**

National Petroleum Authority, **Ghana**

National Propane Gas Association (NPGA), **United States**

Nepal LP Gas Industry Association, **Nepal**

New Cosmos Electric Co., Ltd, **Japan**

NGL Strategy, **US**

Nigeria LNG limited, **Nigeria**

Nigeria LP Gas Association (NLPGA), **Nigeria**

Nigerian National Petroleum Corporation (NNPC), **Nigeria**

Oil and Gas Regulatory Authority, **Pakistan**

Oil Industry Safety Directorate - Government of India, **India**

Omial SpA, **Italy**

Omera Petroleum Limited, **Bangladesh**

Onyx Environmental Solutions, **United States**

OPIS, **United States**

Optech Engineering PVT. LTD., **India**

Origin Energy, **Australia**

Oryx Energies, **Switzerland**

OZDigal, **Portugal**

Paraco Gas Corp., **United States**

Parami Energy Services Co Ltd, **Myanmar**

Paygo Energy, **Kenya**

Pearl Print, **India**

Persistent Energy Partners LLC, **United States**

Pertamina, **Indonesia**

Petredec Services (Asia) Ptd Ltd, **Singapore**

Petrogas S.A. (Mozambique), **Mozambique**

Petroleum Institute of East Africa (PIEA), **Kenya**

Philippines LPG Association, **Philippines**

Pilot International, **Uganda**

Plantation Human Development Trust, **Sri Lanka**

Plasmerica, **United States**

POGP, **Poland**

Polar Power Inc, **United States**

Poten & Partners Inc, **United Kingdom**

Power to educate AS, **Norway**

Practical Action, **United Kingdom**

Prins Autogassystemen B.V., **Netherlands**

Projeto GLP Qualidade Compartilhada, **Brazil**

Propane Education & Research Council (PERC), **United States**

Propano y Derivados, **Dominican Republic**

Proto Energy Limited, **Kenya**

Rawafd, **Saudi Arabia**

Red Seal, **United States**

REEEP, **Austria**

RegO Products, **United States**

Rochester Gauges International, **Belgium**

Rubis Energie, **France**

Rungas, **Nigeria**

Sahamitr Pressure Container Public Co. Ltd (SMPCPLC), **Thailand**

Saisan CO LTD, **Japan**

Salam Gaz, **Morocco**

Saudi Mas Trading, **Saudi Arabia**

SCG (Thailand) Co Ltd, **Thailand**

Secretariat of the Pacific Community (SPC), **Fiji**

Self Employed Women's Association (SEWA), **India**

Sensile Technologies SA, **Switzerland**

SHV Energy, **Netherlands**

Sibur International GmbH, **Austria**

Siemens Industrial Turbomachinery Ltd, **United Kingdom**

SIGMA Cylinder, **Lebanon**

SIGTTO, **United Kingdom**

Sindigas, **Brazil**

SK Gas, **South Korea**

SNDP, **Tunisia**

Sonatrach, **Algeria**

Southern Gas Trading JSC-Cylinder Branch, **Vietnam**

Spectrum Sustainable Development Knowledge Network, **Myanmar (Burma)**

Standards Organisation of Nigeria, **Nigeria**

Stanford University, **United States**

Suburban Propane, **United States**

Sunrise LP Gas & Energy Group, **China**

Superior Gas Liquid, **Canada**

Taizhou City Yuehai Manufacturing Co Ltd, **China**

Targa Resources, **United States**

Tekfen Imalat, **Turkey**

The Green Flame Gas Co., **Kuwait**

The Lagos Chamber of Commerce & Industry, **Nigeria**

The Partnering Initiative , **United Kingdom**

Thomas Aquinas Foundation, **Ghana**

Tianlong (China), **China**

Total, **France**

TPA Metals and Machinery Co. LTD, **China**

Trade Data Monitor, **United States**

Trafigura PTE Limited, **Switzerland**

Trovan Ltd, **British Isles**

Truma Geratetechnik GmbH & CO, **Germany**

Turkish LPG Association, **Turkey**

Tyczka Trading & Supply GmbH & Co. KG, **Germany**

UGI Corporation, **United States**

Ultragaz, **Brazil**

UNHCR, **Switzerland**

Unidad de Planificacion Minero Energetica, **Colombia**

Unigaz International Ltd, **Lebanon**

UNIPET, **Trinidad & Tobago**

Unique Central Piped Gases Pvt Ltd, **India**

Unitex LP Gas, **Bangladesh**

Veroniki Holding, **Italy**

Vivo Energy, **Netherlands**

Wartsila Tank Control Systems, **France**

Weber-Stephen Products Company, **United States**

Wingaz S.A., **Haiti**

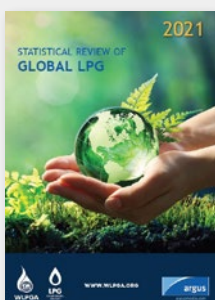
Winrock International, **United States**

World Alliance for Decentralized Energy (WADE), **United Kingdom**

World Central Kitchen, **United States**

KEY PUBLICATIONS

Each year WLPGA produces a wealth of world class publications. Ranging from freely available case studies, publications and videos, to reports that are available to our members only. All publications are available [here](#) and there is a comprehensive sorting tool to narrow down your research. Here is a snapshot of the key material we produced in 2021:



Statistical Review of Global LPG 2021

The Statistical Review of Global LPG is the WLPGA's flagship publication and published each year with Argus media. It contains the latest comprehensive supply and demand data from over 120 countries. This valuable document is provided to all members as part of the membership proposition and is available for purchase from Argus Media.



Heating Incentive Policies

This report, produced jointly with Liquid Gas Europe, aims to provide useful information, data and communications tools that can be used to educate stakeholders, including governments on the benefits of switching to LPG and renewable LPG for heating. This also includes a policy playbook which crystallises the key messages from the report in a handy five-page visual format.

You can download it [here](#) and the playbook [here](#)



Good Industry Practices Guides

WLPGA has a library of good industry practice guides which is developed each year. These guides layout recommended practice guidelines for a wide range of LPG related activities and give indispensable advice to promote the safe and smooth running of the industry. In 2021 WLPGA produced Good Industry Practice Reticulated LPG Systems and LPG Consumer Safety.

You can download the Reticulated LPG Systems [here](#) and the LPG Consumer Safety [here](#)



The Internet of Things (IoT)

An updated version of the original 2019 report highlighting opportunities for the LPG industry.

You can download it [here](#)



Guide to New Autogas Markets

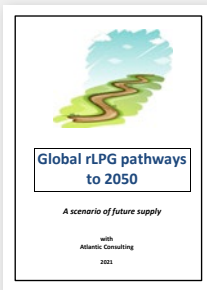
Introducing LPG use for transport based on lessons learned in successful markets. You can download it [here](#)



Safety Alert – LPG Cylinder Valve Removal

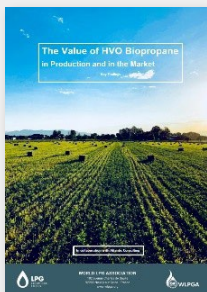
With safety a priority focus area for the association, WLPGA produced the first one page safety alert addressing LPG cylinder valve removal.

You can download it [here](#)



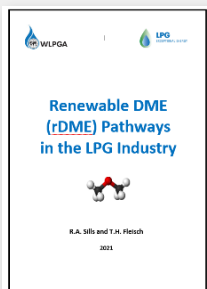
Renewable LPG Global Pathways towards 2050

The report demonstrates that by 2050, the supply of renewable LPG can meet at least 50% of non-chemical LPG consumption, even in the most-extreme demand scenarios postulated by energy authorities. Available upon request for members' only.



The Value of HVO Biopropane

This study relates to the economics of HVO biopropane production and is available to members' only on request.



Renewable DME Pathways in the LPG Industry

This report provides an overview of key challenges and opportunities per rDME pathway.



LPG For Marine Engines

This report was updated in 2021 to accompany the major communications campaign around this key sector. You can download it [here](#)



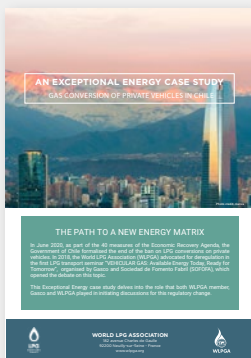
Sustainable Recovery: The role that the LPG industry can play in supporting a sustainable recovery

Each year WLPGA produces a key report on a specific issue facing the industry. In 2021 the focus was on the role of LPG in a sustainable recovery from COVID-19. This is accompanied by an infographic, message house and social-media ready snippet library.

You can download it [here](#)

Exceptional Energy Case Studies

The WLPGA publications library boasts an extensive collection of case studies covering many success stories from around the world. View the library here This year, six new case studies were added to this resource:



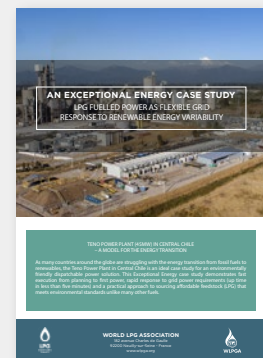
Gas Conversion of Private Vehicles in Chile

You can download it [here](#)



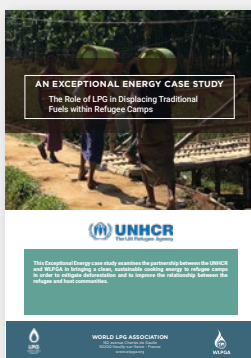
LPG for Power Generation – Off Grid Island Resort in the US Virgin Islands

You can download it [here](#)



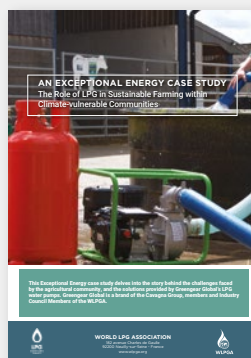
LPG for Power Generation – LPG Fuelled Power in Chile

You can download it [here](#)



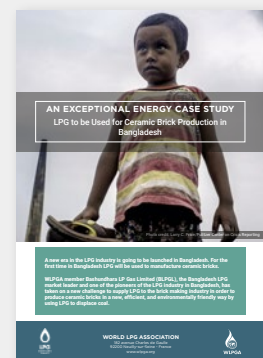
The Role of LPG in Displacing Traditional Fuels within Refugee Camps

You can download it [here](#)



The Role of LPG in Sustainable Farming within Climate-vulnerable Communities

You can download it [here](#)

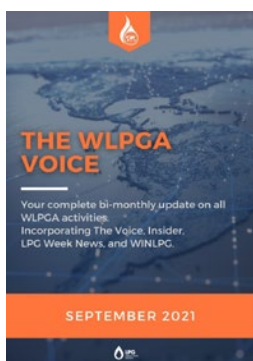


LPG in Ceramic Brick Production in Bangladesh

You can download it [here](#)

NEW for WLPGA Members! Bi-Monthly Argus Snapshot.

2021 saw the launch of a new initiative with Industry Council member Argus Media. The snapshot will give WLPGA members a regular brief and clear overview of pricing developments on key indices for propane and butane. Each issue of the snapshot will offer insights, market moving news and handpicked analysis so members stay informed of key developments that impact the global LPG sector.



The Voice Newsletter

The Voice is a magazine style bi-monthly newsletter that unites four key newsletters: The Voice (global industry news); Insider (updates for WLPGA members only); WINLPG (an update on this important network); and LPG Week News.

To register to receive the newsletter please email association@wlpga.org

“ Indian Oil Corporation Ltd. & WLPGA cherish a sustained association of more than four decades. This alliance has been further strengthened with Indian Oil’s representation in the Board, Industry Council, and the recently constituted Youth Council, that will help achieve the shared vision of a cleaner & healthier world.

With more than 1.3 billion people, India is home to 18% of the global population & accounts for 7% of the world’s energy demand. With heightened energy aspirations of the citizens, India is set to experience the fastest growth in energy consumption among large economies of the world.

The Indian LPG marketing companies successfully overcame the challenges of COVID-19 and registered a YoY growth of 23.2% in the domestic LPG sector during April-June 2020. During this quarter, an average of 5.7 million domestic cylinders were delivered on daily basis to the homes of LPG consumers across the country, with Indian Oil leading from the front.

Indian Oil’s association with WLPGA will provide an opportunity for knowledge sharing, deliberations on the best innovative practices and explore new business prospects globally. I take this opportunity to wish the WLPGA team all the success for LPG week in Dubai and invite the global LPG Industry to participate in LPG week at New Delhi, India in December 2022.

”

V. Satish Kumar, Director (Marketing), Indian Oil Corporation Ltd.



GOAL ADVOCACY

As governments start to enact ambitious legislation to accelerate the move to decarbonised economies, the LPG industry faces significant challenges, but also great opportunities. In this context, the role of WLPGA as a strong voice of advocacy and clear communications for the industry is crucial. The Advocacy Steering Group (ASG) oversees the creation of coherent and consistent messaging as well as strong advocacy positions that are targeted to key stakeholders. The ASG works closely with national and regional association members to create the necessary communications tools to ensure that decision makers are informed, equipped and knowledgeable about the benefits of LPG. Advocacy has a dual focus on the role of LPG in the decarbonisation debate as well as on the role that LPG can play in achieving the development targets set out in the United Nations' Sustainable Development Goals (SDGs), specifically increasing access to clean, modern energy, improving air quality and addressing the challenges of climate change that were highlighted during the COP26 meetings in Glasgow in November 2021.



Download the report [here](#)

This programme area was set up to advocate for LPG as part of the solution to future energy challenges. To achieve this objective the work stream in 2021 focused on continuing to represent the interests of the industry with governments which are setting aggressive decarbonisation targets as well as on highlighting the role of LPG in achieving the development objectives set out in the United Nations' Sustainable Development Goals (SDGs).

In 2021, WLPGA built on the detailed stakeholder mapping created in 2020 to expand outreach to key stakeholders such as the International Energy Agency (IEA), the World Biogas Association (WBA) and others. Leveraging the support of the newly created Advocacy Steering

Group (ASG) as well as fully focused and targeted communications campaigns, this strategy allowed for methodical outreach to key stakeholders that are crucial in achieving WLPGA's mission. There was particular success in 2021 with the World Biogas Association (WBA), which culminated with the first ever event held jointly with WLPGA entitled "Biogases: Driving the Transition from Fossil to Green" held virtually on 13th and 14th October and which featured members from both WLPGA and WBA.

The work on the SDGs in 2021 was focused more on how promoting how LPG can contribute to achieving all 17 of the SDGs and ensuring that there are adequate communications and advocacy tools for this purpose.

The programme area also produced a joint WLPGA, Liquid Gas Europe report entitled "Heating Incentive Policies" which aims to provide useful information, data and communications tools that can be used to educate stakeholders on the benefits of switching to LPG for heating as well as on why governments should encourage and incentivise a move from high carbon, dirty fuels such as coal and heating oil to LPG and renewable LPG. The report includes country case studies from Chile, France, Germany, the United Kingdom, and the United States.



“ 2020 presented great global challenges which unequivocally demonstrated the robustness and resiliency of the LPG industry. 2021 showed us that not only will LPG play a role in the recovery from COVID-19, but that as an essential source of clean energy for billions of people across the world, it is able to effectively contribute towards achieving carbon reduction targets while ensuring that no one is left behind in the global energy transition. WLPGA’s advocacy programme area will focus on ensuring that the qualities that make our fuel so special continue to gain global recognition.

”

Esther Busscher, Head of Group Public Affairs, SHV Energy President, Liquid Gas Europe and Advocacy Goal Chair

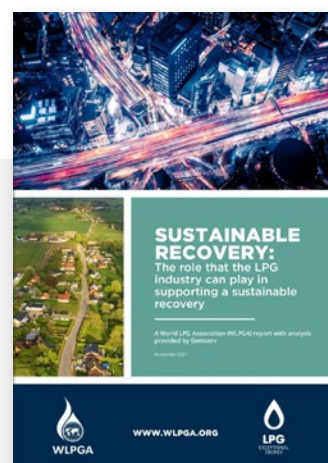


Advocacy also focused on increasing cooperation with WLPGA national and regional associations. This was done through the Presidents Platform in which WLPGA President, Henry Cubbon met over two days with association member representatives from more than 30 different countries to understand how WLPGA can support them in their activities. WLPGA also produced an official statement for member associations to use in their communications about the role of LPG in the climate change debate in preparation for COP26. This statement was translated into numerous languages and brought consistency and coherence to the industry’s messaging on climate change and the meetings in Glasgow.

Find the official statement [here](#)

For the fourth consecutive year, WLPGA partnered with UK based consultancy Gemserve (formerly Ecuity), to produce a report addressing immediate issues facing our industry. This year’s report – “Sustainable Recovery: The role that the LPG industry can play in supporting a sustainable recovery” – is a fresh analysis which considers the positive impact that investments in LPG and bioLPG energy projects can deliver on the economy and the environment as part of the recovery from COVID-19. The main report is freely available along with an accompanying communications toolkit.

Download the report [here](#)



GOAL

BUSINESS IMPROVEMENT



“ On 11th of March 2020, when the World Health Organization declared the COVID-19 outbreak a pandemic, probably no one knew that the world would still be facing this crisis after 19 months, with huge impact on people and companies, even if one can see now signs of recovery for some economies.

The resilience of the WLPGA Industry in this uncertain environment brought by this health crisis is of huge importance as we have continuously focussed on delivering LPG to communities and companies in a safe manner around the world. The LPG industry continues to play key role for more prosperous world by ensuring a cleaner, healthier and safer product is available for communities around the world.

The Business Improvement Goal (BIM) has undertaken many important activities in line with the WLPGA’s vision to promote the use of LPG to foster a safer, cleaner, healthier and more prosperous world. Some of these activities are the strengthening of safety in the business through the publication of guidelines, the organisation of training workshops, the use of digitisation and the harmonisation of standards to encourage business improvement, supporting diversity in the LPG industry by increasing the number of women in the industry and attracting young talent.

Thank you to the volunteers who joined the working groups of the BIM. They are doing a lot for a great dynamic of activities, and thank you to the members of the WLPGA who continuously support and contribute to the initiatives of the three goals of the association.

Blaise Edja, Oryx Energies and Chair of the Business Improvement Goal



Statistical Review of Global LPG 2021

The 2021 WLPGA Statistical Review of Global LPG was published by Argus Media in September and revealed some surprising data. The LPG industry proved to be resilient during 2020, a tumultuous year, with COVID-19 wreaking havoc on the global economy and fuel industries. Despite the collapse in demand for transport fuels, the diverse use of LPG across the energy and non-energy sectors, contributed to impressive results.

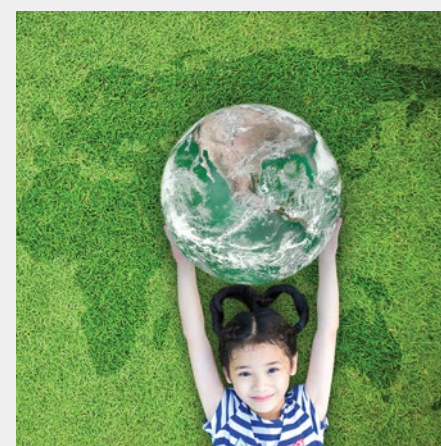
The latest statistics revealed that the global supply of LPG in 2020 was 329.4 million tonnes (mn t), a marginal decline of 1.4 per cent (pc) compared with the previous year. Total demand in 2020 stood at 317mn t, a decline of just 2.6pc from 2019.

The important role of LPG as a cleaner cooking fuel, and as a petrochemical feedstock, was highlighted in 2020. Some large domestic markets, such as India and Indonesia, saw a continuation of upward trends as the use of LPG for cooking persisted during strict lockdown restrictions, resulting in over 5pc growth in domestic LPG demand in both those countries.

Robust demand for petrochemical feedstock was driven by strong markets for packaging and medical equipment. Global domestic demand for LPG in 2020 was 140.2mn t, a fall of just 2.3pc. However commercial demand fell 8.5pc and industrial demand dropped 10pc, in line with the economic downturn. Petrochemical demand in 2020 was 87.6mt, a decline of 3.0pc over 2019.

The statistics demonstrated that the standout performer in 2020 was the whole LPG industry. The latest results once again demonstrate the importance of LPG in a crisis and one of the key lessons learnt, particularly by policy makers, has been that LPG is not only an exceptional energy, but also an essential energy.

The report also contains a forecast from Argus Media for global LPG demand and their prediction is steady growth until 2025, when it is expected to reach 370mn t, and then it will start to flatten off. The statistical review of global LPG is available to non-members of the WLPGA directly from Argus Media by contacting Kristen Mueller kristen.mueller@argusmedia.com.





You can download the Reticulated LPG Systems [here](#) and the LPG Consumer Safety [here](#)

Good Industry Practices

Each year, the WLPGA produce a new guide to good industry practices. The topic for 2021 is reticulated LPG systems, and the guide was published in October.

The use of reticulated, or piped, LPG systems is popular in some countries and the experiences learnt has been applied in this latest publication. Reticulated LPG systems allow up to thousands of consumers to be supplied with a metered supply of LPG from a central storage system instead of each consumer having their own cylinder or bulk supply. The guide illustrates the advantages of reticulated systems and describes the key components of the design.

with representatives from member companies and other experts from across the industry.

In addition to producing the suite of good industry practice guides, WLPGA traditionally runs in-country good industry practice workshops. With travel curtailed due to COVID-10, these in-country events were replaced with virtual webinar workshops. This year, these were run with a focus on African and Asian markets, attracting audiences of over 150 online delegates, including many who had been unable to attend workshops in the past. A recent workshop was organised with Oryx Energies, sponsored by Sigma Cylinders. An in-country audience in Dar Es Salaam joined by a virtual global audience, including delegates from the Americas, Europe, Africa and Asia to hear presentations on good industry practices and the Cooking For Life programme. The final workshop of the year was held during LPG Week, a hybrid event for delegates in Dubai as well as a virtual audience.



Delegates attending in the in-country event in Tanzania

The complete library of good industry practice guides is available at this [link](#). Each WLPGA guides has been published with the support of a working group

The first principal of these workshops is to fully understand the properties and characteristics of LPG, and then apply them to the correct storage, handling, and distribution of the product. The schedule for 2022 however will include virtual and hybrid workshops even if there are no travel restrictions.

“ I was very proud to take over the helm at the LPG Association of South Africa this year. The WLPGA welcomes over 30 fellow LPG associations and gives us a unique opportunity to share our best practices, our challenges, and our successes. I’m also very pleased to support the association in their diversity efforts which are critical to the future of our industry. I am grateful for the support that the WLPGA and its fellows have provided to LPGSA during the year. ”

Gadibolae Dihlabi, Managing Director, LPGSA



“ We need to be prepared to share H&S best practice, meet and discuss common issues, ask each other for help, and most importantly share lessons from incidents we see in our organisations to stop repeat events happening elsewhere; the newly established WLPGA H&S Core Group does exactly this! Meeting monthly, the group is proving to be a platform of open and candid collaboration between H&S leaders across the industry. It is great to see (and feel) the trust between members that creates a partnership, across all geographies, with just one aim, that is our colleagues and customers should not be harmed or injured from our operations. It’s a group of people who discuss openly the challenges we have, then collectively share potential solutions. ”

Hugh Barrs, Group Health and Safety Director, SHV Energy



WLPGA and Safety

The WLPGA Core Safety Group was established during the year to apply a renewed focus on safety. Senior HSE representatives from some of the largest LPG companies, along with experienced consultants, meet monthly and discuss safety incidents that have occurred across the LPG industry in various parts of the world.

The group has two objectives:

- To freshen up the safety culture across the LPG industry and make it more friendly and engaging
- To encourage an atmosphere of sharing of safety incidents and accidents in order that improvements can be made to mitigate against them reoccurring

Deliverables from the group include one page ‘Safety Alerts’ that describe incidents and summarise recommendations to prevent them happening again. ‘Chance’ the puppet is being used in a new safety culture campaign that introduces the symbolic character to concentrate the message that incidents and accidents with LPG are not down to chance but a failing in training, a design issue, or a procedure that was not followed or needs addressing.

In November the Industry Council held a Deep Dive Discussion on the subject of safety. The ninety-minute webinar included a presentation from Michiel van Dorst, CEO Air Traffic Control The Netherlands (LVNL), who described the importance of safety in the airline business and the possible lessons that could be applied to the LPG industry.

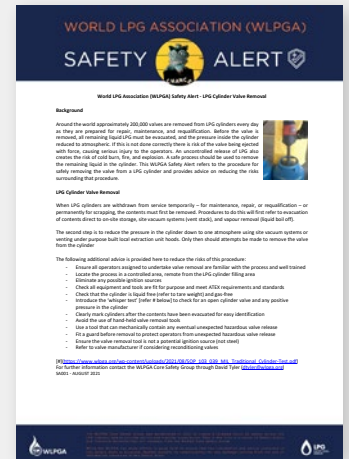
World LPG Challenge ‘21

Following the success of the inaugural start-up competition in 2019 the WLPGA has now made this an annual event.

This year, the Challenge’21 competition was sponsored by the Propane Education and Research Council, UGI International, and Suburban Propane with support from Anova. The subject for the World LPG Challenge ‘21 was ‘Innovation in Transport Safety’. The competition was launched in April 2021 and the judging panel, consisting of representatives from both within the LPG industry and the start-up community, selected four submissions for the final pitch off held during LPG Week in Dubai.

The four finalists, Gas Village, Intactilis S.R.L., Doowegas and SenTech, pitched off against each other with the audience casting their votes for the winner. All four finalists received a cash prize for reaching the final. They were also all provided with a popup booth in the LPG Week exhibition. This year’s winner, announced during LPG Week, was SenTech and the runner up was Intactilis S.R.L. Last years’ winner, Quempin SPA received a complimentary pass for LPG Week and a popup booth.

For more information on the World LPG Challenge contact David Tyler (dtyler@wlpga.org).



You can download it [here](#)



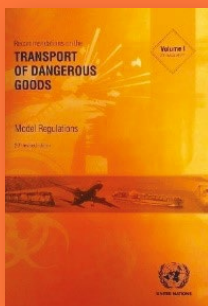


“

At Emirates Gas, we appreciate and value the efforts of the World LPG Association in providing a global interactive environment for the LPG and derivatives industry to thrive. We are honoured to have been part of the LPG Week success and thrilled to have met our LPG industry peers in an event that offered opportunities for strategic partnerships and commercial agreements to take place.

”

Nader Al Fardan, Senior Director, Gas Marketing, ENOC and General Manager, Emirates Gas



The International Maritime Organization (IMO) and the Hazardous and Noxious Substances (HNS) Convention

The WLPGA holds observer status with the IMO at the meetings of the International Oil Pollution Compensation Funds (IOPCF). That allows the WLPGA to attend meetings that include the discussions for the entry into force of the Hazardous and Noxious Substances (HNS) Convention.

LPG is classified as a HNS and retains a separate account in the proposed HNS Convention. This is important because the track record of incidents at sea with other HNS cargoes is much worse than LPG. An analysis of claims data on the list of HNS incidents involving vessels, submitted by the International Group of Protection and Indemnity Associations (P & I Clubs), shows that between 2010 and 2019 there were only four incidents involving LPG vessels out of a total of 219. Clear evidence that WLPGA’s involvement in the HNS Convention discussions continues to protect the industry’s position by retaining that separate account.

The IOPC Funds provide financial compensation for oil pollution damage resulting from spills of persistent oil from tankers. It is administered by the IMO. The March and November meetings were held virtually, David Tyler attended both.

The IOPC Funds continues to carry out its role in promoting the HNS Convention, preparing for its entry into force, and for the first session of the HNS Fund Assembly. The hazardous and noxious substances (HNS) Finder, the online HNS search tool developed and maintained by the IOPC Funds since 2011, has undergone a significant update and the new version is now available at <https://iopcfunds.org/news/online-search-tool-to-identify-hns-updated/>. The Finder is aimed at facilitating the identification of HNS contributing cargo.

Standards Harmonisation

This year, the primary focus was again the work within the technical committee ISO TC 58 (Gas Cylinders), and participation in the international plenary meetings of the committee and its subcommittees. In 2021 all meetings took place virtually, which allowed for participation in more meetings than usual as there was no time spent travelling.

At UN level, WLPGA continued its involvement in, and contribution to, the work of the UN Model Regulations through the Sub-Committee of Experts on the Transport of Dangerous Goods with meetings in Geneva, but also hybrid, physical/virtual meetings again this year.



International Organization for Standardization



Contact:
Nikos Xydas
Technical Director
nxydas@wlpga.org

@LPGapps



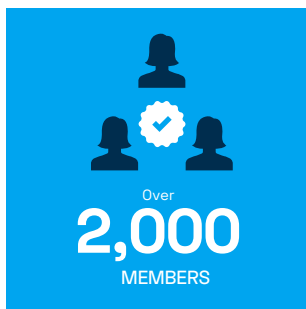
Women in LPG Global Network

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

WINLPG was launched in September 2015 during the World LPG Forum in Singapore, and 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 the network via media, within the industry itself and at international events; and in the longer term, to implement measures to educate and attract talent to the LPG industry.

WINLPG is a unique platform to meet, connect, exchange and learn. The network has over 2,000 members and has seven active national chapters in the USA, Nigeria, South Africa, Myanmar, India, Colombia and in 2021 launched the seventh national chapter, WINLPG Kenya.

2021 was another exceptionally successful year for WINLPG, we were able to advance the network's momentum, despite travel restrictions. We welcomed new Ambassadors, enhanced our role model library, continued our newsletter suite, continued our social media outreach and of course held the 2021 awards. WINLPG also hosted two global webinars in May and November as part of the LPG Talks Live series. The year was successfully rounded up with an extremely well attended face-to-face Knowledge Exchange session in Dubai during LPG Week where we were able to finally get to do what the network is supposed to do ... network!



The WINLPG Management Team is



Paula Frigerio
WINLPG Global Chair



Alison Abbott
WINLPG Global Manager



Nikki Brown
WINLPG Global Community Manager



“

It is my honour to act as Global Chair for this most important and exciting of networks. Having an active and successful network that promotes women in our sector is not simply a ‘nice to have’. It is an essential part of the process to ensure that we have a balanced, diverse and inclusive industry. WINLPG has taken immense strides in making sure that women have a voice at all levels of the industry and we continue to develop the momentum and worldwide interest that was first ignited six years ago.

WINLPG is all about networking, and even though we have not been able to physically meet again, I am proud that we have nevertheless still been able to put together platforms that enable women – and men – in our industry to connect virtually, exchange and learn, whether via the two webinars we held this year, or via our ever-expanding group of national chapters. I would like to thank the industry for the immense support.

”

Paula Frigerio, Global Chair, WINLPG and Chief Innovation & Development Officer, Abastible

Woman of the Year Award & Young Woman of the Year Award

In 2018, WINLPG launched the Woman of the Year Award to recognise women who have made an important contribution to the LPG industry or who demonstrate significant motivation or show support for the cause of diversity, and who has enjoyed unparalleled career success. In 2019, WINLPG also launched a Young Woman of the Year Award to recognise women under the age of 35 who have made a contribution to the LPG industry or who demonstrate significant motivation.

WINLPG is delighted to announce that the winner of the Woman of the Year Award 2021 is Tamria Zertuche, Chief Operating Officer, Ferrellgas in the USA. WINLPG is equally delighted to announce that the winner of the Young Woman of the Year Award 2020 is Dariya Nurtazayeva, Safety Manager, Flogas Britain Ltd in the United Kingdom.

WINLPG also celebrates and congratulates the runners-up in the first two categories. Woman of the Year 2020 Runner-up is Caren Navas, Key Account Manager, Consigaz Sao Paulo in Brazil and Runner-up of Young Woman of the Year is Ana Eliza Vairo, Product Development Manager, Ultragas also in Brazil.

Each year we receive exceptionally high level and inspirational applications for these awards and we honour all the candidates with a Class of The Year wall on our website. See the Class of 2020 here and the Class of 2021 will be uploaded early January. <https://www.wlpga.org/key-focus-areas/women-in-lpg/winlpg-class-of-2020/>

“ I am extremely honoured to be a winner of the WINLPG Young Woman of the Year award. I am grateful for the recognition I have received for my commitments in the LPG industry at a company, national and international level. It means so much to me that the work that I am so passionate about also resonates with others. Many young professionals, like me, have struggled to stay motivated at the time of the pandemic. However, new initiatives such as, WLPGA Youth Council provided a great opportunity to meet inspiring young talents in the industry and to collaborate on the exciting projects with international impact. Youth Council members are actively working on promoting the next generation to join the LPG industry. I am proud to be a member of the Youth Council and I believe that this award empowers and motivates me and members to keep all the good work. I would like to thank the World LPG Association, DCC and Flogas Britain for ongoing support and development of young talents in the industry. ”



**Dariya Nurtazayeva, Safety Manager,
Flogas Britain Ltd, UK**

“ Thank you and thank you to WINLPG for recognising me. I have had the opportunity to work for over 20 years with Ferrellgas, a company that truly values women in all aspects of the business. Regina said during the WINLPG November webinar, that one of her core tenets is to recognise the value of women and to promote and support women. I have been lucky to work with Jim Ferrell who has made this a priority throughout his entire career, my opportunities are due to his continued efforts in support of me and of all women in leadership at Ferrellgas. I can't help but think of all the powerful women leaders of Ferrellgas and I am truly happy that this might shine a light on all they do to support me and each other. We are very lucky. ”



Tamria Zertuche, Chief Operating Officer, Ferrellgas, USA

The WLPGA Youth Council

A lack of youth within, and entering, the LPG industry was identified as a long-term challenge. The 2020-2022 Strategic Plan has specifically identified the development of a programme to attract young talent as one of its key three-year objectives.

The Youth Council was launched in May 2021. Each Industry Council member is invited to nominate two representatives to join the Youth Council. A young woman and a young man under the age of 35. The Youth Council is managed by two Co-Chairs who were elected to that role by their fellow Youth Council members. The current Co-Chairs are Mike Ferrari, Suburban Propane in the US; and Ghita El Kouhen, Afriquia Gaz in Morocco.

The Youth Council is guided by a Steering Committee comprising representatives from IC Member companies Aygaz, Anova, BW Epic

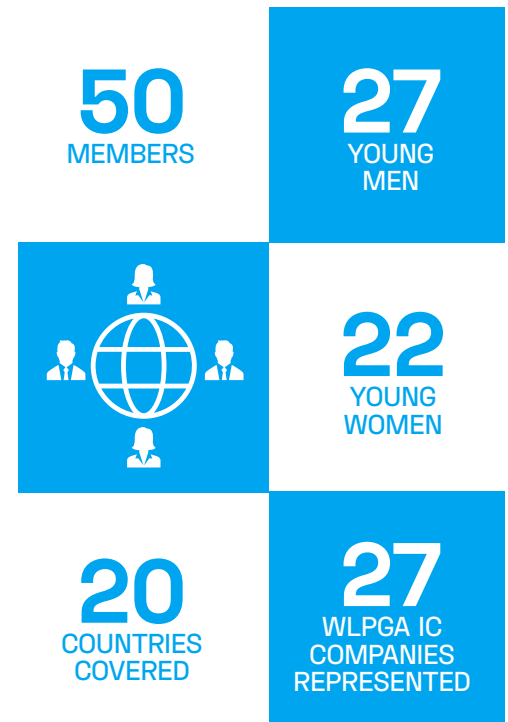
Kosan, DCC LPG, Equinor, Ferrellgas, Omera and Ultragas.

The Youth Council has four areas of focus: Team Awareness; Team Sustainability; Team Safety and Team Recruitment. The Youth Council members are divided into each team, and managed by a Team Captain, have embarked on work programmes for each focus area. The team captains are Francesco Paolo Forina (Equinor), Sebastian Soto (Gasco), Heather O'Connor (Suburban Propane), and Sarah Hutchings (Ferrellgas) respectively. The Youth Council reports on progress at Industry Council meetings.

The Youth Council meets monthly and anyone who has taken part in these calls can vouch for the incredible energy, commitment and focus that this group of young talent brings to the industry.

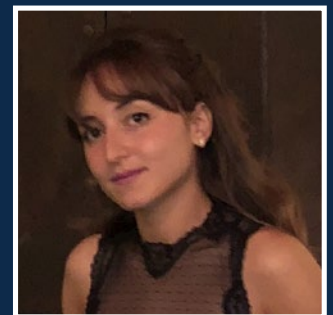


COMPOSITION TODAY



“ As a people, we have a social responsibility to drive innovation and find new, better, and cleaner ways to live. As an industry, we are actively pushing the envelope when it comes to science and technology to help support those goals. We are facing an energy transition at the global level that is putting the LPG industry at risk, as well as a recruitment epidemic, compounded with an ageing and retiring workforce. With over 50% of the world population using LPG as a fuel source, it is no secret that we are at the precipice of a real shift in how our world gets and uses energy.

In light of these challenges, the World LPG Association formed a Youth Council, comprising young, top talent from across the globe. Coming from the leading LPG companies around the world, our team has some of the brightest minds and fresh ideology to help us advance from the way we have always done it. Since its inception in May 2021, this team has made major strides in creating a platform to build off of. With our four primary focus areas being Recruitment, Sustainability, Awareness and Safety, our efforts directly align with the goals and ambitions held by the WLPGA and Industry Council Members. As Co-Chairs of the Council, we are both excited and anxious to move our industry into position for a long term, sustained future in the energy sector. We are the Future of Energy.



Michael Ferrari & Ghita El Kouhen, WLPGA Youth Council Co – Chairs

WLPGA

INNOVATION & GROWTH



“ Over the past twelve months we have begun to emerge from the grips of COVID-19 and reflecting back, even with all the constraints, we certainly have made progress. In the renewable LPG space, we have started to build on the “technological possible” platform, with probable pathways that would give us true momentum.

With technological exploration we proposed that the future health of our industry does not simply rely on the renewable or bio-LPG movement (rdME), but also on complimentary molecules such as renewable Dimethyl Ether (rdME), a molecule which in its fossil form has been used in Asia, complimenting both LPG as a blend and in some areas as a sole proven energy source.

Also the realisation of the challenge ahead of us, has caused some of our members to propose working collaboratively in this new molecule space, not only to fulfil their strategies, but also to bring strength and gravitas to the continuing challenge our energy transition path brings us every day. This coming year we will be at an inception point in moving from well researched plans in our industry, to executable projects. An exciting time for us all and full of opportunity.



Neil Murphy, VP Business Development UGI International and IGO Goal Chair

”

Innovation & growth at the forefront of future opportunities

Innovation, promotion of new technology and new applications, industry leading reports and raising awareness of all of these elements are indispensable for business growth.

IGO has a focus on identifying and promoting innovation in technology; identifying and growing new business sectors such as marine and bioLPG, renewable LPG, which were a main focus again this year; and continuing growth in more established markets with potential such as Autogas,

cooking and power generation. For the LPG industry to flourish in an environment characterised by aggressive decarbonisation targets and policy aspirations for the rapid electrification of everything, the industry must have immediate solutions. Demonstrating the viability of renewable LPG as a long-term energy alternative is therefore a key priority.

Demonstrating the credibility of meeting at least 50% of the 2050 non-chemical LPG demand with renewable LPG

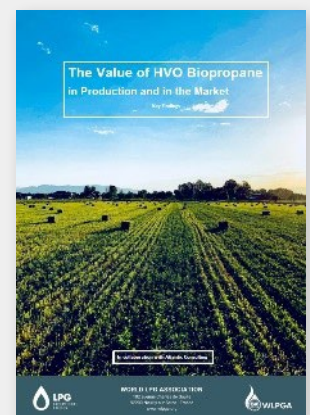
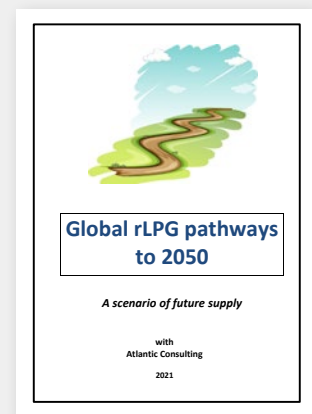
A significant part of IGO activity in 2021 was the work done to demonstrate the credibility of the industry of meeting at least 50% of the 2050 non-chemical LPG demand with renewable LPG. A dedicated report, covering global supply, was produced to support this. The report, carried out by Atlantic Consulting, took into consideration public energy authoritative scenarios such as IEA, IRENA, DNV etc., and concluded that by 2050, renewable LPG

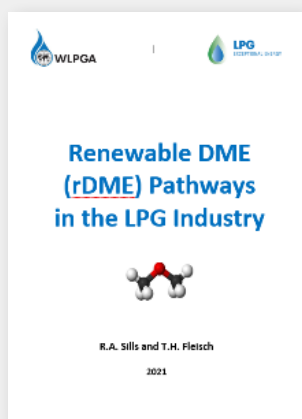
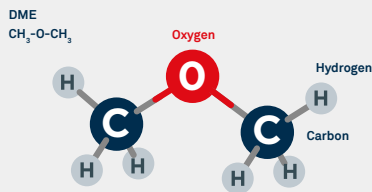
supply can indeed meet at least 50% of non-chemical LPG consumption, even in the most-extreme scenarios postulated by energy authorities, and this not yet including renewable DME. This could mean the production of over 200 million tonnes of renewable LPG, however, the report stipulated that the right conditions must be in place in terms of government policies, successful innovation and growing demand for renewable fuels.

Renewable LPG Value Assessment Study, Economic Analysis of HVO Biopropane

This report addressed the economics of HVO biopropane production. This study was also carried out by Atlantic Consulting in consultation with key stakeholders and producers of HVO biopropane. The report aims to enhance understanding of rLPG value from a market and producer perspective to support industry led dialogue with key stakeholders. The report makes it clear that it

is transport fuel incentives that mainly drive the production of HVO biopropane today. These incentives vary widely within regions and countries, and there are certain areas, both policy related, and softer issues at refineries and production sites, that need to be addressed to incentivise growth in production. This study is available for members' only upon request.





Enlarging the scope rLPG working group by adding renewable DME (rDME)

The scope of the rLPG activities was also widened to cover rDME due to possible future renewable products in the LPG industry.

This resulted in additional reports being produced, and closer cooperation with the International DME Association (IDA).

Renewable DME pathways in the LPG industry

The rDME pathways in the LPG industry report was one of the additional deliverables completed. This report provides an overview of key challenges and opportunities per pathway, Technology Readiness Levels (TRLs), indicative timelines for commercialisation, estimates of rDME volumes available for the LPG industry considering competing uses for feedstocks/raw materials short and long term, and maps potential hot spots for global rDME. This work stream was chaired by SHV Energy, and the

study was carried out by consultants Ronald Sills and Theo Fleisch, of the XTL & DME Institute. The report includes also DME/rDME fundamentals, why the methanol industry is important to rDME, renewable feedstocks availability (biomass, power-to-X) including competing renewable products, regional/country supply/demand assessment, carbon intensities for feedstock/pathways, commercialisation scenario timelines to 2050 and finally recommendations to the LPG and DME industry.

Renewable LPG Products, Terminology and Definitions

This study provides guidance on how to best establish product names, definitions and specifications that are compatible with present, and future (business) needs of the LPG industry. This work in progress is to be completed Q1 2022. It considers different definitions and specifications for commercial grade LPG that exist today, and how well these are suited to accommodate future renewable

product variations. It also identifies potential merits, and demerits, to broadening or changing the scope of existing product names, definitions, and specifications to accommodate renewable variations of LPG. It explores also the feasibility of introducing new product names, standards, and definitions. Finally, it will provide recommendations to the LPG industry on next steps.

Exceptional Energy In Action (EEIA) – The Online LPG Applications Directory

EEIA continued to be enhanced, with new application pages and materials, supported by its Twitter feed with now almost 2,000 followers.

www.lpg-apps.org
@LPGapps

LPG as Marine Fuel

This year was a highly successful year for establishing LPG as a marine fuel.

With the IMO2020 regulations on sulphur cap already in place from 2020, and the IMO GHG Strategy 2050 putting pressure on the shipping industry to reduce pollutants and to decarbonise, the use of LPG as a marine fuel saw a significant uptake. By the end of the year there were 120 confirmed orders

for LPG powered vessels, with 15 of these vessels were already operating. Once all these vessels are operational, this will represent the the equivalent of an additional 1 million tonnes of market growth.

WLPGA also organised and/or participated in eight WLPGA marine and shipping related events and webinars to promote the case of LPG as marine fuel.



GLOBAL TECHNOLOGY CONFERENCE (GTC2021)

Each year, the LPG industry is invited to submit abstracts showcasing some of the most innovative and promising technologies. GTC is key in identifying innovation and new technologies to shape the future in the LPG industry. GTC was a key part of LPG Week again this year, and was held as a hybrid event.

The presentations this year were focused on renewable products for the LPG industry, mainly rLPG and rDME, power generation technologies, including fuel cells and hybrids. Safety and business improvement with digital technologies were also addressed.

The prestigious GTC 2021 Innovation Award was attributed to SHV Energy for their two presentations, “On-purpose renewable LPG production”, and “rDME: Scaling up supply for LPG sector defossilisation”.

SHV Energy was also awarded the category award of Future Fuels.

The runner-up of the GTC 2021 Innovation Award was Adaptive Energy LLC for their presentation “Propane Powered Solid Oxide Fuel Cells for Backup, Off-grid & Portable Power”.

Other award category winners were: for Safety, MAKEEN Energy for their presentation “New LPG Cylinder Leak Detection Brings Safety To The Next Level”; for LPG Applications Gasco GLP for their presentation “LPG Power generation for Off-Shore Salmon Farming Facilities”; for Marketing-Distribution, Ultragas for their presentation “ULTRAGAZ 24/7”; and for Business Improvement, Anova for their presentation “Energising Digital Consumer Engagement”.



Above photos show Rebecca Groen and Keith Simons of SHV Energy receiving their awards.





Cooking For Life

In 2021 Cooking For Life continued to focus on establishing WLPGA as the global hub for information on the benefits of switching to LPG in a development setting and as a conduit to information and best practices from the LPG industry. Increased attention to the health benefits of clean cooking have been made more pronounced by the COVID-19 crisis and the link between air quality and public health.

Building on this, in 2021 Cooking For Life focused on the overall objective of one billion people switching by continuing to successfully partner with key stakeholders and members.

An example of this is continued close collaboration with the United Nations High Commission on Refugees (UNHCR) in supporting clean cooking programmes in refugee camps.

Dedicated mini-campaigns

The IGO work is supported by occasional focused ‘mini’ communications campaigns. Each campaign focusses on key market sectors for which WLPGA wants to give an additional push. In 2021 the two sectors of focus were marine and power generation.

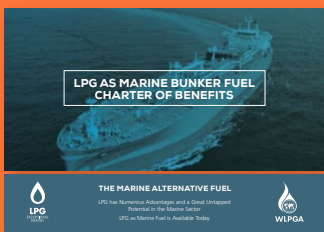
Autogas demand in 2020 dropped by 10% compared to 2019 but the global number of Autogas vehicles increased to 27.6 million.

Effort on the Autogas sector continued with a focus on India, and for the third year in a row Autogas Day was celebrated with a focused programme in Dubai with speakers from all parts of the industry. Philippe Prevel of Renault gave the keynote speech before panellists in three sessions discussed the theme of the conference, ‘Rediscovering Autogas’. He was confident that Autogas has a strong future as a transition automotive fuel because of its ability to meet Euro 7 emission targets well into this decade. The importance of convincing governments that Autogas can deliver significant benefits in tailpipe emissions to clean urban skies was one of the biggest challenges facing the industry he said.

The WLPGA conducted a six-week promoted Twitter campaign communications campaign with a focus on India to position Autogas as an immediate solution to maintain clean air.

To celebrate Autogas Day the WLPGA published a new edition of Guide to New Autogas Markets. The original version had been published in 2018 with support from the Autogas Focus Group. The same group was responsible for editing the latest version.

You can download it [here](#)



Marine

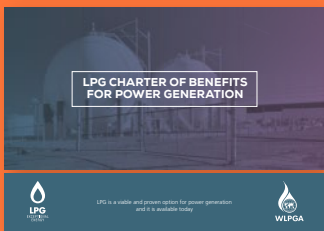
WLPGA ran a month-long focused communications campaign on marine, built around thought leadership pieces by James Rockall and Nikos Xydias, the campaign highlighted the many benefits of LPG for marine.

Power Generation

WLPGA also ran a successful month-long, global communications campaign to highlight the benefits of using LPG for power generation. In addition, a well-attended workshop on the issue was held during LPG Week. The working group on power generation continues to focus on raising awareness of the potential for this technology. In 2021 two case studies were created, one focusing on an off-grid island resort in the US Virgin Islands and one on a facility in central Chile. Both are available on WLPGA’s website.

Autogas

Autogas remains a key area of focus for WLPGA. The Autogas business was hit hard by the impact of COVID-19 as lockdowns curtailed transport fuel demand in general.



UNHCR/WLPGA partnership

In 2018 the WLPGA formed a partnership with the UNHCR to support the agency in transitioning refugees away from wood to LPG. The partnership included a 'head of agreement' between both parties and the UNHCR becoming observer members of the WLPGA. The initial focus of attention was in Bangladesh where nearly 1m refugees had arrived from Myanmar. Within weeks the surrounding areas were being denuded of vegetation as the refugees sought wood for their primary cooking fuel. Three years on, and the whole refugee population is using LPG instead of wood and the countryside has recovered.

The WLPGA has provided on-going support throughout the programme with advice on tenders, equipment,

education, fire safety and the investigation of safety incidents. The transition from wood to LPG has improved the health of the refugees by eliminating the indoor smoke inside the shelters and increasing their food diversity index, allowing them to eat a wider variety of healthier foods and increasing their vitamin intake. Deforestation around the camps has also been addressed.

With the increase in the international price for LPG, the WLPGA is in discussions with the UNHCR about how a 'donor in kind' initiative might work where instead of money, equipment and product is donated. Another initiative that is being discussed is whether a type of carbon credit can be accrued from a wood to LPG transition.



Refugees collecting LPG cylinders during COVID-19 restrictions



“UNHCR is proud of its unprecedented efforts, in partnership with other humanitarian partners, to transition almost one million Rohingya refugees from use of firewood for energy to LPG in the refugee camps in Bangladesh. This is a significant step towards climate action in the largest refugee operation in the world. The close working relationship and technical support provided by the WLPGA has played a significant role in helping to make this possible.”

Johannes Van Der Klaauw
Representative
UNHCR Representation in
Bangladesh

WLPGA

GLOBAL COMMUNICATION



Communications is the golden thread that weaves through the entire body of work that WLPGA produces and is a critical area of WLPGA activities. Communications outreach ultimately impacts all of the work undertaken by the association and is instrumental in ensuring that the LPG community and beyond, are equipped with content and collateral to help us all speak with one, common, united voice.

WLPGA produces world class collateral including ready-to-go sector specific toolkits to help save you time and investment, and align the industry's worldwide visibility. This all sits beneath the well-established LPG umbrella brand, Exceptional Energy, now embraced around the LPG world.

WLPGA also runs specific cropped campaigns focusing on issues and opportunity facing the energy industry so that LPG has a voice, such as marine and power generation.

“ After two challenging years, the LPG sector is even strengthened. Throughout this period, we have shown a lot of resilience and commitment to society. WLPGA played an essential role to connect the agents of transformation in the industry, facilitating the exchange of innovations, good practices and, as a consequence, the strengthening of regulation in the sector.



Be part of the WLPGA is to be part of the construction of the future, playing a leading role in the energy transition, reinforcing the role of LPG as an essential, clean and accessible energy for billions of people. That this journey continues to attract new agents, talents, inspiring new generations and adding value to society as a whole!

”

Tabajara Bertelli Costa, CEO, Ultragas

The WLPGA Global Communications Summit

Establishing a set of powerful common messages is the ultimate goal of a consolidated communications effort. In February 2021, WLPGA held the first Global Communications Summit, uniting communications professionals from key members, to debate key messages to unite the industry as we work through a global recovery.

Global Comms Summit Messages

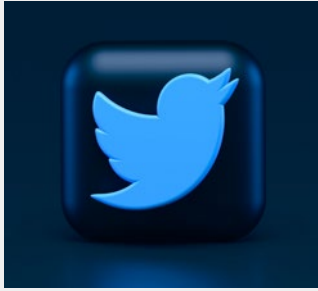
- BOOSTING ECONOMIC GROWTH**
 - RESILIENT
 - ESSENTIAL
 - RELIABLE
- CREATING JOBS**
 - RESILIENT
 - ESSENTIAL
 - RELIABLE
- BUILDING MORE RESILIENT & CLEANER ENERGY SYSTEMS**
 - RESILIENT
 - ESSENTIAL
 - RELIABLE

WLPGA **LPG** **EXCEPTIONAL ENERGY** **ANOVA**

THE WLPGA GLOBAL COMMUNICATIONS SUMMIT

Wednesday 24th February 2021
13:00-16:00 Paris time
HOSTED BY ANOVA

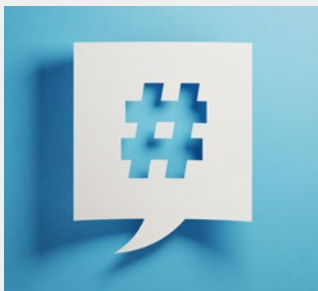




Super-Focused Campaigns

To raise awareness of major topics – whether it be an existing sector, or exploring the potential in new areas – the WLPGA creates and delivers super-focused communications campaigns. These campaigns last around three weeks and comprise thought leadership

articles, new content, all delivered around an intense social media deliverable and culminating in an LPG Talks Live webinar covering the topic. This year the focus sectors were power generation and marine.



#LPGday

We also like to have a little fun, so join the global LPG community on 7th of June every year to recognise LPG! We invite you to get creative, join the community and collaborate on our very own day of

celebration. 2021 saw the third edition of #LPGday, another highly successful and interactive 24 hour celebration of the benefits of LPG.

HAPPY #LPGday FROM THE WLPGA TEAM



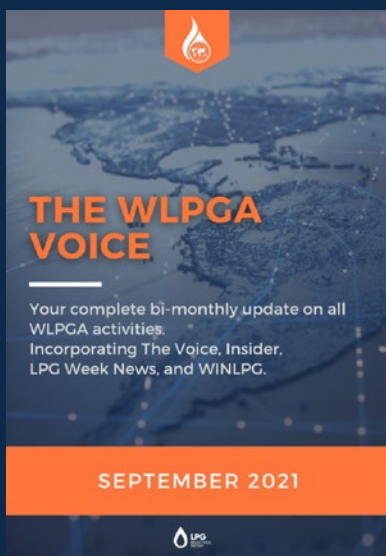
LPG Talks Live!

In 2021 WLPGA launched 'LPG Talks Live' hosted by Industry Council member Anova. These bi-monthly, free to attend webinars take an in-depth look at trending topics from safety to diversity, in a 'fireside chat' ambience offering you the opportunity to take part.



LPG Talks

To complement the LPG Talks Live brand, LPG Talks is a bi-monthly recorded interview with an industry leader guest speaker. Beyond a podcast, the interview is a unique opportunity to hear thought leadership comments from key figures in the sector.



The Voice Newsletter

The bi-monthly Voice newsletter is a magazine comprising The Voice industry news, Insider update for WLPGA members, the Women in LPG Network newsletter and the Forum Voice for updates on LPG Week.

To register to receive the newsletter please click [here](#).

Connect with Us on Social Media

The WLPGA Communications Team has a comprehensive social media strategy which is at the core of our digital activity. Connect with WLPGA here.



@WorldLPGAssoc



WorldLPGAssociation



worldlpgassociation



World LPG Association



WorldLPG

WLPGA

LPG WEEK 2021 DUBAI

This year, the WLPGA brought a different event to the scene, the hybrid LPG Week 2021/Dubai was the first in-person LPG Week as well as being hosted online. LPG Week was a hugely successful hybrid event organised by the World LPG Association (WLPGA) that took place 5th-9th December under the theme Energising Tomorrow with the patronage of His Highness Sheikh Ahmed Bin Saeed Al Maktoum. This marked the first hybrid LPG Week. Those who were able to travel to Dubai had a new, and indeed, 'energised' opportunity to connect, to network face-to-face, learn and do business. A week where almost 2,000 participants came together from 92 countries.



“ As an industry leader, ENOC takes pride in having led the discussions that took place at LPG Week around sustainability and innovation. The thought-provoking discussions which took place during LPG Week will further support the industry’s transformation and act as a strong catalyst towards innovation and adopting sustainable development practices. In line with our vision to deliver sustainable value and industry leading performance, we are committed to further supporting the industry’s shift towards implementing sustainable development practices and contributing towards a greener future for generations to come. ”



His Excellency Saif Humaid Al Falasi, Group CEO, ENOC



LPG Week was an exceptional event packed with choices of snapshot sessions, powerplay sessions, side events, presentations and knowledge sharing sessions on the Exceptional Energy stage, a Women in LPG networking event, and of course two days of high-level presentations in the main plenary, and an exhibition showcasing the best products and technology the LPG world has to offer. Other events taking centre stage were the Global Technology Conference (GTC21), Autogas Day and LPG4Dev, with of course announcements of the winners of the GTC and the World LPG Challenge.

Not forgetting, of course, spectacular gala dinner which took place at the esplanade of the Armani Hotel overlooking the majestic fountain display at the foot of the world’s tallest building, the Burj Al Khalifa. Always a highlight, this formal seated dinner united over 300 guests who enjoyed superb food in a convivial, and stunning outdoor setting.

The event was launched with words of welcome by His Excellency Saif Humaid Al Falasi, Group CEO, ENOC; Henry Cubbon, WLPGA President; and James Rockall. The grand opening was followed by rousing keynote speeches by His Excellency Pro. Yemi Osinbajo, Vice President of Nigeria, and Ms. Gauri Singh, Deputy Director-General of the International Renewable Energy Agency.

There were several takeaways from the week:

LPG NOT ONLY A TRANSITION FUEL, BUT SET TO BE PART OF THE DESTINATION.



According to H.E. Prof Yemi Osinbajo, Vice President of the Federal Republic of Nigeria, LPG is a fuel of the future, there is an optimistic future and we will grow in a robust manner’.

RENEWABLE LPG CAN MEET AT LEAST 50% OF NON-CHEMICAL DEMAND BY 2050.

LPG is also an ideal fuel to support the journey to renewables. There have been exciting innovations in technology and swift movement in renewable LPG and renewable DME, demonstrating how quickly the LPG sector can move forward with the right fuel and the right partners.

THERE IS AN URGENT NEED TO HUMANISE ENERGY.

We must humanise the energy transition, put consumers at the heart of the transition, engage with communities, and develop demand. That the objective needs to be telling and listening, rather than selling.

WE ARE IN A DECADE OF ACTION AND NEED ACCESS TO CLEAN COOKING FUEL.

Ms Gauri Singh, Deputy Director General IRENA.

THERE ARE MANY ROADS TO 2050.

As the world moves towards net zero in 2050. Each country will have a different transition path, all technologies are needed, and LPG and renewable LPG have a key role to play.



“

After two years of planning, interrupted by the COVID-19 pandemic, the first face-to face LPG Week was a resounding success. Held under the theme “Energising Tomorrow” it was clear from the discussions between senior industry leaders and prominent intergovernmental representatives that the LPG sector has a very important role to play in the global energy future, either with traditional LPG or with renewable LPG.

”

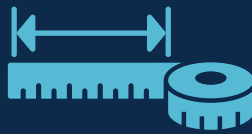
James Rockall, WLPGA CEO & Managing Director



Esther Assous
Events Director, WLPGA

2021 / DUBAI
LPG WEEK
5-9 DECEMBER

LPG WEEK IN NUMBERS



1,600+
SQM OF EXHIBITION



27
SPONSORS



~2,000
ATTENDEES (ONSITE & ONLINE)



80
SPEAKERS



TOP 5
COUNTRIES
1. United Arab Emirates
2. India
3. Italy
4. United States
5. Saudi Arabia



92
COUNTRIES REPRESENTED

Global Technology Conference (GTC 2021)

Innovation is what drives the LPG industry to the future and the annual GTC is an integral part of the

Innovation for Growth activities in WLPGA. A full report of the GTC is on page 35.

Autogas Day

The 3rd Autogas Day Conference focused on 're-discovering Autogas'. Following a keynote from Philippe Prevel of Renault, a keen supporter of using LPG in vehicles. Various panels throughout the day discussed how to kick-start the Autogas market, the role of Autogas in a net zero carbon future, and the latest developments and innovations in the Autogas sector.

Concluding that Autogas has a bright future, even in a net zero future, Ms Angelique Berden, from Westport Fuel Systems, concluded that there is no silver bullet but the industry needs to target policy makers with a compelling message from the enormous amount of positive information available.



LPG4Dev

The fourth edition of LPG4DEV covered a great deal of ground in two interesting sessions that wrestled with issues ranging from the role of LPG in opening up markets in developing countries to the importance of government support

to stimulating growth and incentivizing investment. LPG4DEV continues to be the premier global event for discussions about the role of LPG in driving development.



“

We are confronted by a frightening climate crisis ... LPG is an ideal fuel to support the journey to renewables ... beyond being an effective transition fuel, LPG is set to be part of the destination.

”

HE Prof Yemi Osinbajo, San, Vice President, Federal Republic of Nigeria during LPG Week



“

This is going to be a decade of action and we need access to clean cooking fuel. We need both molecules, as well as the electrons, which means that gases, as well as electricity, will play an important role in the way our future will unfold in the energy sector.

”

Ms Guari Singh, Deputy Director-General, International Renewable Energy Agency during LPG Week

A season for Awards!

GTC Awards

The GTC awards are held annually and comprise a series of awards that promote achievement in various categories. Papers are selected by the Steering Committee and presented during the GTC.

The winner of the Innovation Award was SHV Energy with two presentations: Rebecca Groen for the paper **RDME: Scaling up supply for LPG sector defossilisation;** and Keith Simons for the paper **On purpose renewable LPG production.** SHV Energy also received the category award on future fuels. The runner up of the GTC21 Innovation Award was Adaptive Energy LLC for the paper Propane Power Solid Oxide.

Other category awards were the GTC21 Safety Award which was awarded to MAKEEN Energy for their presentation **New LPG cylinder leak detection brings safety into next level;** The LPG Applications award to Gasco Chile for their paper **LPG Power Generation for Off**

Shore Salmon Farming Facilities; the marketing distribution award to Ultragas for their presentation **Ultragas 24/7;** and the Business Improvement award won by Anova for their presentation **Energising Digital Consumer Engagement.**

The World LPG Challenge'21

The World LPG Challenge is an annual competition designed to seek fresh solutions to industry challenges from people who work in the start-up community, outside of the LPG industry. Traditionally, the LPG industry has relied on expertise from within the industry to tackle their challenges and this competition gives an opportunity for the industry to welcome new thinking from beyond the LPG industry. This year's four finalists presented their pitches under the theme 'safety in transport'. Finalists were Ellen Wang, SenTech; Tinashe Khumbula, Gas Village Ltd; Giacomo Benedetti, Intactilis S.R.L.; and James Atitie, Doowegas. The winner was Ellen Wang, SenTech and the runner up was Giacomo Benedetti, Intactilis S.R.L.



LPG Week in Photographs



WLPGA

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 assuring that the WLPGA can truly speak as a unified and coherent voice for the industry. The Board composition is representative of the business activities and geographic diversity of WLPGA members.

The WLPGA Board comprises 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 General Assembly of December 2021 in Dubai during LPG Week.

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



Henry Cubbon
WLPGA President
Managing Director, DCC LPG, Ireland



S. M. Vaidya
WLPGA First Vice-President
Chairman, Indian Oil Corporation, India



David Cavagna
WLPGA Vice-President
CEO, Cavagna Group,
Italy



Blaise Edja
WLPGA Vice-President
Downstream Manager West Africa,
LPG Oryx Energies, Switzerland



Bram Gräber
WLPGA Vice-President
CEO, SHV Energy,
The Netherlands



Roger Perreault
WLPGA Treasurer
President & CEO, UGI International,
USA



Tabajara Bertelli Costa
WLPGA Board Member
CEO, Ultragas, Brazil



Gökhan Tezel
WLPGA Board Member
CEO, Aygaz, A.S, Turkey



Molly Morris
WLPGA Board Member
SVP Crude, Products and Liquids,
Equinor, Norway



Claude Le Damany
WLPGA Board Member
Vice-President LPG,
Total, France



Sakae Yoshida
WLPGA Board Member
Managing Director,
Japan LP Gas Association, Japan

WLPGA

INDUSTRY COUNCIL

The WLPGA Industry Council was inaugurated in 1996 and comprises 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 Board of Directors.

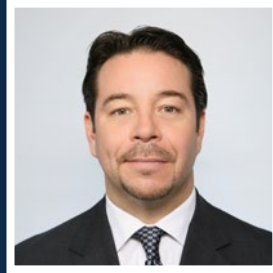
Actions launched by the Industry Council aim at enhancing the positive image of LPG worldwide and promoting LPG use to satisfy the growing need for an all-purpose, efficient, and environmentally friendly fuel. Whether focused on specific market segments, or the LPG industry in general, the Industry Council's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



WLPGA TEAM



James Rockall
CEO & Managing Director



Michael Kelly
Deputy Managing Director
& Director of Market
Development



Alison Abbott
Marketing & Communications
Director



Esther Assous
Events Director



Nikos Xydas
Technical Director



Camille Pieron
Digital Communications
Manager



Audrey Ginsz
Office Manager &
Member Relations Manager

HOW TO

KEEP UP WITH WLPGA

WLPGA produces a wealth of industry-leading reports, case studies and related materials, much of this is freely available to the global LPG community. So how and where can you access all this data?

Here we explain the various LPG platforms, what is available where, and for whom:



www.wlpga.org

The WLPGA website is the main platform to learn about LPG as an Exceptional Energy, the association, its main activities and campaigns, and freely access all publicly available reports and videos.



Exceptional Energy in Action
The global portal on LPG Applications

www.lpg-apps.org

LPG-Apps is the unique online database cataloguing the hundreds of applications for LPG around the world.

autogas

www.auto-gas.net

Everything you need to know about Autogas, including the latest WLPGA reports and case studies for free download.



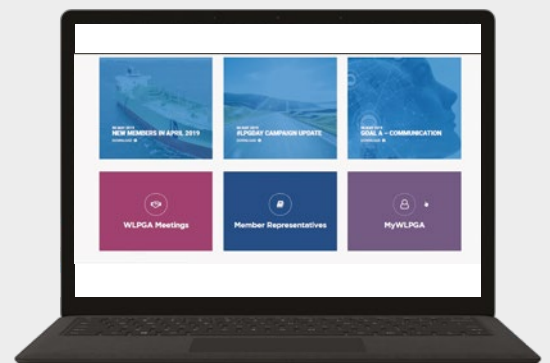
www.extranet.wlpga.org

The Members' Area is a password protected portal that is available to anyone who works for a member organisation. Here you can find specific technical reports, member only reports, minutes from WLPGA internal meetings (Industry Council, Association Executives Meetings, General Assembly, Member Engagement Meetings), the members directory, a shareable photo library to help illustrate your own collateral, discounts for global LPG events and more. For more information, contact aginsz@wlpga.org

MyWLPGA

www.mywlpga.wlpga.org/login

This specific portal is housed within the Members' Area and is for member administration contacts. Here you can register for WLPGA internal meetings, update your organisation details, check your fee payment status and pay your membership fees online. Access requires another password and one access is given to each member so that there is one single admin user. For more information, contact aginsz@wlpga.org



2022/NEW DELHI

LPG WEEK

5-9 DECEMBER





...DIA
...HILLS WHICH ARE HONORED ELSEWHERE
...AFRICA CALLED THOSE WHOSE NAMES ARE
...AND DURING THE THIRD ALPHAN WARR





WLPGA



LPG
EXCEPTIONAL
ENERGY

WLPGA

182, avenue Charles de Gaulle
92200 Neuilly-sur-Seine, France
Tel: +33 1 78 99 13 30

association@wlpga.org
www.wlpga.org