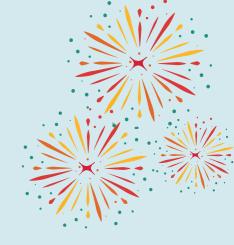
LPG Week 2023/Rome







A SPARKLING NEW YEAR!



Reflecting on a Remarkable LPG Week 2023!



As we stand at the threshold of a New Year, it's both a pleasure and an honour to reflect on the incredible journey we've had during LPG Week 2023. The accomplishments, innovations, and collaborative spirit that defined this year's event have set a benchmark for excellence and inspiration.

LPG Week 2023 was not merely a conference, it was a celebration of industry achievements, a testament to our collective commitment to Just Energy, and a platform for forging invaluable connections. The diverse range of perspectives, the depth of discussions, and the wealth of knowledge exchanged truly exemplified the strength of our industry.

Looking back, we witnessed remarkable advancements, learned from thought leaders, and explored opportunities that will undoubtedly shape the future of the LPG industry. The passion and dedication of each participant, exhibiting company and sponsor contributed to the success of the event, making it a memorable and enriching experience for all.

As we turn our gaze toward the horizon, I am thrilled to express my anticipation for LPG Week 2024 under the theme Energy for All. Building on the momentum of this year, I am committed to making the upcoming event even more impactful, informative, and engaging. The challenges and opportunities ahead demand our collective efforts, and I am confident that together, we will continue to push the boundaries of what is possible in the LPG sector.

In the spirit of collaboration, innovation, and shared success, let us carry the momentum of LPG Week 2023 into the New Year. The coming months hold the promise of further growth, learning, and exploration. I encourage each one of you to actively participate, share your insights, and be a driving force behind the success of LPG Week 2024.

Thank you for your unwavering support, dedication, and enthusiasm. May the new year bring us closer to our goals and aspirations.

Wishing you a joyous holiday season and a prosperous New Year!

Warmest regards,



Esther AssousWLPGA Events Director

THANK YOU TO OUR SPONSORS

Featured











Collaborating























Contributing















Supporting















Autogas Day







Knowledge Partner



THANK YOU

Grazie Italia! What an experience LPG Week 2023 featuring the 35th World LPG Forum & European Liquid Gas Congress has been for delegates, exhibitors and visitors alike! Twelve months since our last LPG Week in Delhi, together with the European Liquid Gas Congress, the industry once again came together in near-record numbers to meet, debate and do business under the theme "Just Energy". With over 50 sessions, focus meetings and network events, including a keynote speech from the Minister of Environment and Energy Security, Mr Gilberto Pichetto Fratin, LPG Week 2023 featuring the 35th World LPG Forum & European Liquid Gas Congress brought together key figures from government, inter-governmental organisations and industry, to reaffirm that LPG is a vital and just solution to sustainable energy transitions. With sessions focused on supply and demand, innovation and leadership, LPG Week has strengthened its position as the premier global LPG event.

This exceptional week was available both face-to-face but also online in a hybrid format, which means that all content is available online for three months for all delegates. LPG Week was only made possible with the support of many. We thank our sponsors; in particular our Featured sponsors, AGN Energia, ButanGas, ENI, SHV Energy and UGI International. We now turn our focus to next year where we will meet again in Cape Town, South Africa in November 2024 under the theme "Energy for All". We look forward to seeing you there!



EXECUTIVE SUMMARY

Just Energy

LPG Week returned to Europe from 13th – 17th November 2023 under the theme "Just Energy" with a focus on the role that Liquid Gas can have in ensuring that no one is left behind in energy transitions across the world. Bringing together over 2500 participants, LPG Week 2023 featured the World LPG Forum and the European Liquid Gas Congress together with many side events and meetings covering the full spectrum of the global Liquid Gas industry.

Key conclusions for the industry:

LPG Week returned to Europe from 13th - 17th November 2023 under the theme "Just Energy" with a focus on the role that Liquid Gas can have in ensuring that no one is left behind in energy transitions across the world. Bringing together over 2500 participants, LPG Week 2023 featured the World LPG Forum and the European Liquid Gas Congress together with many side events and meetings covering the full spectrum of the global Liquid Gas industry.

- Dr Maria Neira from the World Health Organization and Dymphna van der Lans from the Clean Cooking Alliance spoke about the benefits that access to LPG brings to women and girls in developing countries. Yet these benefits are not limited to the Global South. In Europe and North America L:PG will continue to have a role as a clean alternative to complement other low carbon transitions, particularly through the development of renewable Liquid Gas.
- The importance of the Liquid Gas industry in Italy was highlighted specifically, including the need for recognition of the contribution that biosourced fuel can have in the energy transition and the economic benefits of re-purposing existing infrastructure with renewable molecules.





EXECUTIVE SUMMARY

Key conclusions for the industry (continued):

- Darryl Rogers from S&P Global gave an overview of different decarbonisation scenarios and what implications these would have for renewable Liquid Gas production. David Appleton of Argus Media noted that bioLPG will be available at a larger scale in the coming years.
- Safety in the business is always a key element of any LPG Week but this year
 the audience were stunned by a powerful one-hour talk from a Ken
 Woodward, a victim of an industrial accident that resulted in him losing both
 of his eyes. Everyone who listened to Ken left the session with a clear
 understanding of their responsibilities to safety.
- Examples from across the world, from Brazil to Canada to Ireland, showed how Liquid Gas can ensure that the energy transitions can be just and equitable. But governments need to avoid bans on applications and help develop renewable Liquid Gas production. In the Global South, fossil-sourced LPG can help decarbonise a range of energy transition journeys.
- Esther Busscher of SHV Energy gave a very powerful Ted Talk on the need for courage in tough situations. This prefaced a discussion on the challenges facing the European Liquid Gas sector from a European policy landscape that is sometimes threatening, and highlighted the opportunities from growing the renewable Liquid Gas production capacity.







KEY FIGURES





2,600
ATTENDES
ONSITE & ONLINE

170+
EXHIBITING
COMPANIES



TOP 5 COUNTRIES

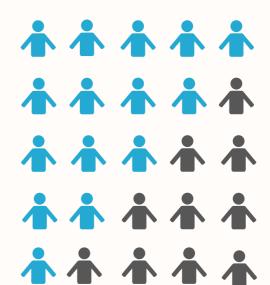
ITALY

UNITED STATES

FRANCE

INDIA

TURKIYE



MASTER OF CEREMONIES



MS CLAIRE DOOLE

KEYNOTES FEATURED



MR GILBERTO PICHETTO FRATIN

Italian Minister of Environment and Energy Security

MR STEFANO ZAMAGNI

Professor in Civil Economics, Former President of the Pontifical Academy of Social Sciences



KEYNOTES FEATURED



GEN. B. GIANCARLO FRANZESE

Representative of the Financial Police (Guardia di Finanza)

MR CARLO DALL'OPPIO

Head of fire brigade - Capo del Corpo Nazionale dei Vigili del Fuoco





I express my sincere appreciation for the invaluable experience I gained as a newcomer to LPG Week. The week in Rome was not only educational but also transformative for me.

I was profoundly impacted by the diverse discussions, insightful panels, and the opportunity to engage with industry leaders. The knowledge gained from the forum has been invaluable, especially in understanding the nuanced dynamics of the LPG landscape and its potential in various contexts. I am eager to implement the strategies and lessons learned to enhance my approach in our market. The knowledge acquired is not just a collection of information but a catalyst for positive change in my endeavours. I believe that by applying these successful stories, I can contribute to the growth and development of our market.

I look forward to sharing the progress and successes resulting from these learnings. Once again, thank you and the entire team for orchestrating such a remarkable event. Your dedication to advancing the LPG industry and facilitating knowledge sharing among professionals is truly commendable.

Mr Nalinda Kurukulasooriya CEO Laugfs Gas, Sri Lanka

SESSIONS SNIPPETS

WLPGA Association Executives Meeting

The annual face-to-face Association Executives meeting is a unique opportunity for fellow associations to meet and discuss issues specific to association best practices. This meeting enables us to leverage the significant power that associations wield in terms of amplifying messaging and deeper outreach into the global community. This year's meeting looked at specific local market challenges and also featured breakout sessions with a focus on what role LPG plays in energy justice and how do we integrate this into our advocacy.

WLPGA Member Engagement Meetings (MEM)

MEM - Safety and Business Improvement

Mr David Appleton, Argus Media, gave a brief overview of the latest Statistical Review of Global LPG. He said the industry had rebounded from the COVID-19 pandemic with demand reaching an all-time high of 342mnt. Mr Tyler then described the activities of the core safety group which meets twice a month and recently oversaw the latest Guide to Good Industry Practices for transferring LPG from a ship to bulk road tankers. Mr Andre Pimentel (ex Anova) described the key updates that were covered in the latest IoT report. Ms Abbott introduced the Diversity initiatives which cover both the Women in LPG Global Network (WINLPG) and the Youth Council. Ms Abbott welcomed Ms Pam Indurjeeth, Oryx Energies South Africa, and President of South African Association LPG the association and WINLPG Global Chair. Ms Abbott gave an update on the latest WINLPG national chapters and the Youth Council programme, 'Reignite Workforce'.

MEM - Advocacy

The Advocacy Member Engagement meeting highlighted key achievements in the 2023 programme area. Featuring updates from the 2023 Presidents Platform, feedback on the WLPGA SADC-India LPG Summit 2023 in South Africa and detailing upcoming activities at COP28. Esther Busscher (SHV Energy), WLPGA Advocacy Chair, shared invaluable insights, and Tim Bauer (Envirofit) delivered a special presentation on the exclusive members-only report, "Unlocking LPG Demand: A Carbon Finance Strategy."

MEM - Sustainable Growth & Innovation

The incoming SGI Chair Fabian Zeigler kicked off the meeting with his vision and objectives for his mandate. The meeting then covered the work of the many different groups convened under SGI that are moving forward on innovation, new fuels and technologies as well as in other areas that are crucial to the evolution of the industry.

MEM - Communications and Awareness

The Communications session of this year's MEMs looked at three elements. An update from Esther Assous from LPG Week and looking forward to Cape Town and Rio de Janeiro over the next two years; an overview by Alison Abbott of the review process for the name change for the World LPG Association to World Liquid Gas Association which would be ratified by the Extraordinary General Assembly later that day; and an update on other communications initiatives from Alison Abbott and Tamsin Rankin including webinar series, key focused sectoral campaigns, member toolkits and introducing the latest flagship document 'The Global Liquid Gas Positioning Document'.



SESSION' SNIPPETS

Members' Dinner

This year's Members' Dinner took place in the stunning Palazzo Brancaccio. The annual Members' Dinner is the chance for WLPGA members to unite in a more relaxed environment over a buffet dinner giving everyone the opportunity to network widely. Members were welcomed by speeches from Mr Bram Gräber, WLPGA President and CEO SHV Energy and Beth Reid, Vice President Global Sustainable Fuels & Growth from UGI International.









Read Full Report

Global Technology Conference Part 1

Moderator Claire Doole opened the Global Technology Conference (GTC) with an interview with Mr Nikos Xydas who provided some background to the event. Ms Doole then introduced the first five presenters whose papers focused on operations and distribution. Mikaël Azevedo from Amtrol-Alfa/Worthington Industries, presented his paper 'NEXITM - A Revolutionary Smart Lightweight Cylinder IoT Solution'. He was followed by Norio Tanaka from Omega Simulation Co. Ltd, with his paper called 'Life Cycle Dynamic Simulator underpins Green LPG Production Performance with an innovative CO2 Capture'. The third paper, presented by Shailesh Gupta of HT Process Controls', was entitled 'Profiling of bottom Dish-end of LPG Cylinders'. Atakan Gurleyen, from Aygaz, then presented his paper called 'Cylinder Loading Robot'. The final presentation was by Cinch Munson, from Oberon Fuels, with his paper 'Introducing the World's First Carbon Negative DME'. The session closed with a poll on the LPG Week Swapcard App. The audience voted for the favourite paper and the results were taken into account when the awards were presented in the exhibition the following day.



Global Technology Conference Part 2

Moderator Claire Doole opened the second part of GTC before introducing the five presenters. The focused second part on marketing applications and Arthur Sams from Polar Power Inc. presented his paper 'New opportunities for LPG solar hybrid systems in telecom and other markets (replacing diesel and coal)'. He was followed by Bret Windom from the Colorado State University with his paper called 'Development of Advanced Combustion Strategies for Direct Injection Heavy Duty LPG Engines to Achieve Near-Diesel Engine Efficiency and Prospects of DME/LPG Blends to Reduce Carbon Intensity'. The third presented by Shimon Shapiro of G-volution, was entitled 'Demonstration of LPG and rLPG use in a Solid Oxide Fuel Cell to power the auxiliary load of a locomotive'. Tom Lundquist, from Integrated Technologies', then presented his paper called 'RV Housing smart gas system'. The final presentation was by Mona Srivastava, from Bharat Petroleum, with her paper 'Next Generation Technology to keep domestic households and lives safe'. The session closed with a poll on the LPG Week Swapcard App. The audience voted for the favourite paper and the results were taken into account when the awards were presented in the exhibition the following day.



Day 2 - 14th November

LPG For Development Summit

LPG4DEV this year concentrated on the role of LPG in achieving UN Sustainable Development Goal (SDG) 5 which focuses on achieving gender equality and empowering women and girls. Kicked off with a rousing keynote from Clean Cooking Alliance CEO, Dymphna van der Lans, the discussion ranged over the main benefits that LPG provides in development context in the Global South.



CEO Conclave

The WLPGA CEO Conclave has become a regular feature of LPG Week. This invite-only event brings together over 100 energy leaders from across the world to discuss and debate a relevant issue for the sector. Held under Chatham House rules, the CEO Conclave of 2023 addressed the question of "Opportunities for the Liquid Gas industry in the Circular Economy". Staged as a dinner debate the conclave featured speeches from the Italian Deputy Prime Minister and Minister of Transport as well as the Head of Circular Economy at Italian energy group ENI.



Exhibition Opening Cocktail

The exhibition opening cocktail traditionally takes place on the eve of the formal event opening. This gives exhibitors and visitors alike the chance to walk the exhibition floor in a more relaxed and convivial setting. This year the guests were treated to traditional Tarantella dancing.







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Relive Tuesday in Video





Ilt was a moment of a lifetime to have the opportunity to be one of the speakers at GTC during LPG Week 2023/Rome & present my innovation of saving lives to an august gathering. It gives me immense satisfaction that through the worldwide network of WLPGA, my idea will be able to reach far and wide impacting lives of LPG users.⁹⁹

Ms Mona Srivastava
DGM, LPG (Digital Payments, Brand and Social Media)
Bharat Petroleum Corporation Limited

Grand Opening

The <u>Grand Opening</u> featured words of welcome from the Presidents of WLPGA, Liquid Gas Europe and Assogasliquidi and was anchored by a thought-provoking keynote speech from the Italian Minister of Environment and Energy Security, the Honourable Gilberto Pichetto Fratin who voiced support for the key role of LPG in the Italian economy and energy transition and encouraged the industry to continue innovating and look towards the future. Listen to all keynote addresses.



Roundtable: Just Energy

This roundtable session featured six speakers with a range of experiences and backgrounds. The discussion explored the learnings from the vast Indian PMUY programme including the positive impacts on health which were remarked upon by Dr Maria Neira from the World Health Organization. Dymphna van der Lans from the Clean Cooking Alliance also spoke about the benefits that access to LPG brings to women and girls in developing countries. Perspectives from Europe were also brought in through a discussion about an aggressive regulatory push via national governments and the European Union and the urgency with which the industry is developing renewable liquid gas.



Session 1: Liquid Gas Supporting Decarbonisation

The challenge of decarbonisation and the role of liquid gas was tackled by eight speakers, ranging from industry experts to national politicians. The importance of the role of the liquid gas industry in Italy and therefore the need for the recognition of biofuels as a contributor to the energy transition, highlighted. Speakers illustrated the was[AA1] development of biofuel production capacity; innovative renewable liquid gas production pathways were also outlined, including the production of BioLPG and Renewable & Recycled Carbon dimethyl ether. Using municipal solid waste as a feedstock to produce biofuel, was referred to by several speakers. Meeting sustainability criteria defined in EU regulation and leveraging existing infrastructure, were stated as key aspects of successful biofuel development. The needs of rural communities, the importance of minimising costs and the need to maintain national competitiveness, were all highlighted as key objectives for success.



GTC Awards Ceremony

James Rockall presented the awards for GTC2023. Addressing the large crowd at the WLPGA booth in the exhibition.

Read More about GTC Awards

Just Energy in Heating (JET Heating) Task Force Meeting

The meeting of this WLPGA Task Force that focuses on countering bans on LPG heating systems held a meeting during LPG Week that discussed advocacy successes in some markets like the United States, Germany and the UK and how these could be replicated in other markets. Many of these lessons will be fed into the 2024 Action Plan.

Session 2: LPG and Renewable Liquid Gases Supply and Demand

This session explored the many challenges and opportunities in the supply and demand of both conventional and renewable liquid gases. The discussion was wide ranging and challenged the industry to think about solutions for ensuring that more renewable liquid gas is available to match growing demand in ways that are sustainable and economic.



COP28 Snapshot

The United Nations Framework Convention on Climate Change (UNFCCC) Conference of the Parties meeting 28 (COP28) will take place in Dubai at the end of November 2023. These significant negotiations on climate change have potentially huge implications for the LPG industry. This snapshot examined what the COP meetings consist of, and how what happens in those negotiations could potentially one day affect your business.

LPG4PowerGen Snapshot

Using LPG for power generation is a segment of the LPG industry that shows a lot of potential for growth. In this snapshot, WLPGA Working Group on LPG For Power Generation Chairman, Christoph Reimnitz led a discussion that looked at this segment which shows promise for growth in both developing and developed countries.



Dolce Vita Dinner

The annual Gala Dinner is arguably one of the highlights of the week and this year was no exception. Held in the exquisite Villa Miani, WLPGA and Liquid Gas Europe welcomed over 500 guests in a breathtaking setting. The dinner also included welcome speeches from Veroniki/ButanGas and AGN Energia, introduced by Ms Ewa Abramiuk-Lété. The Dolce Vita dinner closed with the awards ceremony honouring the winners of the GTC and the Women of the Year, introduced by James Rockall.







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Relive Wednesday in Video



Power Plays

A Social Media Masterclass

The power play: a social media masterclass session offered a comprehensive overview on how to best leverage the power of digital platforms to amplify messaging for our industry. During the session, social media expert Natalia Marczewska, from FTI Consulting, shared her insights on how to develop impactful content, and how leadership voices can play a powerful role in driving a company's trust and reputation.

Liquid Gas Market Outlook Marine

Informative Power Play with more than 75 participants present both from within WLPGA membership and LPG industry, but also from the wider shipping industry outside, ship owners and operators. The session was organised by WLPGA and Lloyds Register (chair of the WLPGA marine activities) and moderated by Panos Mitrou of LR. The new joint WLPGA/Lloyds studies/reports, were prepared by the independent consultant Watermelon, on the use of LPG as Marine Fuel.

Key issues coming out from the new reports and wider, were addressed and discussed with the participants.











And the winner is...

Waddi.io won the prestigious competition of the World LPG Challenge'23 during LPG Week.







Julianna Kamaruddin, NGC Energy, Malaysia and Glaura Kartalian, SHV Energy, the Netherlands jointly won the Woman of the Year Award.

The Young Woman of the Year is: Luciana Gomez, Consigaz, Brazil.

The new Field/Technical Groundbreaker Award has been won by Isadora Dibo Rodrigues da Silva, Ultragaz.

Congratulations to all winners and special thanks to all competitors!









And the winner is...

GTI Energy won the inaugural Global Science Conference during LPG Week with their paper: Cool LPG: A Renewable LPG Production Technology.

The Runner-up was TNO.







Polar Power won the prestigious 2023 Innovation Award at GTC2023 with their papers: 'INew opportunities for LPG solar hybrid systems in telecom and other markets (replacing diesel and coal).

The Runner-up was Amtrol-Alfa, Worthington Industries.



A total of eight awards were given, with the awards in the other categories as below:

- LPG Applications Engines: Colorado State University
- LPG Applications Power Generation: G-volution
- Operations: Aygaz
- Safety: HT Process Controls
- Renewables: Oberon Fuels
- Carbon Footprint Reduction: Omega Simulation Co. Ltd
- Consumer: Bharat Petroleum Corporation Ltd
 & IGT, Integrated Gas Technologies

Congratulations to all winners and special thanks to all competitors!















Attending the World LPG Association's LPG Week event in Rome was an incredible opportunity to connect with the innovators and leaders shaping the future of the LPG industry. From the biggest players to promising startups, companies came together to exchange ideas, forge partnerships, and drive progress.

As Waddi competed in the World LPG Challenge, it was inspiring to see other entrepreneurs passionate about leveraging technology to improve safety, efficiency, and sustainability across the value chain. Our platform's mission to help streamline operations aligns closely with the priorities emerging around digitalisation and decarbonisation. We are excited to learn more and be part of the solutions solving these challenges.

I was honored to meet so many pioneering women advocating for an inclusive, driven industry that empowers female leadership. The connections built there reinforce that when we share knowledge and understanding between sectors, countries and individuals, we can overcome barriers and create real, positive change.

Waddi looks forward to collaborating with the incredible minds, companies and associations; learning global best practices, developing innovations tailored for Latin America's distinct priorities and creating a path for LPG to reach more homes and provide better consumption experiences. By working together, we can shape the sustainable future of LPG.

Ms Jennifer Reyna CEO Waddi

World LPG Challenge 23'

Daniel Libralato from Anova opened the Challenge commenting: '...This year we received the highest amount of submissions for the challenge.' Two finalists could not make it to Rome and provided a video submission to pitch their solution. He invited Jennnifer Reyna to the stage – Jennifer is the Co-Founder and CEO of Waddi – a Al Enabled Modular platform allowing for customised workflows based in Mexico.

The audience then voted for their winner before Chet Reshamwala of Ferrellgas, the sponsor of the Challenge, who announced that Jennifer Reyna from Waddi had won and presented the prizes.

Confronting Safety

A stunned audience watched a powerful video from the Woodward family describing the impact an industrial safety accident has had on their lives before Ken Woodward walked on stage. Ken has lost his sight 30 years earlier during a routine operation that had gone terribly wrong. A combination of things including a mistake in procurement, sloppy procedures and not bothering to use PPE led to Ken losing both eyes. The audience gave him a standing ovation after he described the incident and the pain and suffering that he has had to endure since. He delivered his 40-minute presentation in a calm and measured manner with no hint of anger or regret. All he wants is to help ensure that what happened to him never happens to anyone else.



Session 3: Just Energy Transition

This session looked at how LPG can help ensure that the energy transition is equitable in markets as different as Canada, Brazil and Ireland. The four speakers discussed boiler bans, the creation of renewable LPG flows and the idea that LPG has a role in helping developing countries decarbonise but not defossilise in their energy transition journey.

WINLPG Knowledge Exchange

This year's LPG Week WINLPG Knowledge

Exchange as arguably one of the best we have hosted. Held over lunch, Alison Abbott and Nikki Brown, WINLPG founders, welcomed firstly Pam Indurjeeth, MD Oryx Energies South Africa, President LPGSA and of course Global Chair WINLPG, to say her welcome words. We then heard from a truly exceptional keynote speaker, Captain Priya Doobaree, a pilot with Air Mauritius, who gave a compelling presentation on how she has succeeded in another male dominated environment. We also recognised the Woman of the Year winners, Julianna Kamaruddin, NGC Energy and Glaura Kartalian, SHV Energy; and Young Woman of the Year Luciana Gomez, Consigaz. The Technical Groundbreaker Winner, Isadora Rodrigues da Silva, Ultragaz was also recognised but not present. There followed a lively panel moderated by Pam Indurjeeth with Nandini Sankara, Suburban Propane; Tamria Zertuche, Ferrellgas; Sophie Gaudilliere, France Gaz Liquides; and Wanjiku Manyara, PIEA who discussed how to be powerful without alienating colleagues. Nikki Brown wrapped up the event with a more lighthearted quiz and our now-famous raffle giving three lucky people luxurious gifts.



Liquid Gas the Alternative Fuel Ready to Decarbonise the Future

This session discussed decisions needed from both the industry and policy makers to ensure a clear path for growth for liquid gas and renewable liquid gas. This growth will be necessary as a response to aggressive decarbonisation regulatory structures that have been put into place in many markets around the world and particularly in Europe. The discussion focused on promising research and development avenues that could speed up bringing more alternative fuels to market.

Session 4: Liquid Gas: European Perspective

After a thought provoking[AA1] opening by Esther Busscher of SHV Energy on the need to remain brave and steadfast in tough situations, the panel focussed on the challenges facing the sector in Europe and how it has been striving to be both over the last few years. The European policy landscape was described by many in the audience as over encumbering and sometimes even threatening. However, our panellists described how the industry has been hard at work to provide policymakers with all the information they need to make well-educated policy. This has been particularly true in the process of getting more renewable fuels on the market and ensuring that policy makers see this as the clear long-term dedication that it is.



GTC - Where are they now?

The Global Technology Conference (GTC) was launched in 2006 in Chicago and has been an annual event since then showcasing hundreds of exciting technologies. In 2008 a paper was presented at GTC in Seoul highlighting the opportunities for using telemetry to monitor the contents of storage tanks. The Snapshot 'GTC - Where are they now' took a look at how the technology has developed since then.



Conclusions and Reflections

Michael Kelly summed up the week's Power Plays. Pam Indurjeeth, Managing Director of Orxyx Energies and Fabian Ziegler CEO of DCC Energy closed the event underlying the need for the industry to work together, highlighting the differences between Global South and Global North, and underlying common opportunities. They both agreed that LPG Week featuring the 35th World LPG Forum and the European Liquid Gas Congress provided an excellent opportunity learn about innovation and developments while having a close look into potential of the fuel in heating, transport and cooking and many other applications.

Finally, Ewa Abramiuk-Lété invited participants to join the European Liquid Gas Congress in Lyon, France in June 2024 which launches the new event concept as well and will present for the first time ever European awards for the sector. Pam Indurjeeth invited participants to join the next year's edition of LPG Week which will take place in Cape Town, South Africa, which while building on the discussions of the event in Rome, will furthermore look at Africa as a great opportunity for LPG sector to contribute to air



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Relive Thursday in Video



Power Play

Renewables - Industry Progress, Challenges, and Way Forward

A very successful event from our Sustainable Growth and Innovation Goal activities, with more than 140 participants present, which clearly demonstrated the huge interest of our industry on renewables and the journey to net zero. Beth Reid of UGI International moderated the session and the 12 presenters and panellists discussion. Great examples of renewables technologies and production facilities were demonstrated, including the very first in the world eLG production plant with Gasco in Chile, from renewable electricity and CO2, highlighting the strong commitment of the industry to renewables and net-zero. Everything, everywhere, all at once, is the key message and the industry now needs to come up with a clear roadmap to Net zero, both to ensure a seat at the decarbonisation table and drive with confidence towards the future.





Power Plays

Selling More by Selling Less

Selling more by selling less, through the provision of energy efficiency services and technology, was enthusiastically discussed and endorsed by the delegates to this powerplay on Wednesday morning in Rome. The proposition rests however on the ability of the provider to communicate the benefits simply and effectively, to be able to develop a scalable offering and to provide tools to educate, and to stimulate customer engagement. International, regional, and national regulators view energy efficiency as an essential part of their net zero strategies. Customers want to minimise their energy bills, but they also want to act sustainably where they can. Selling more by selling less thus ticks multiple boxes, by aligning with regulators, by helping customer avoid waste and manage costs, whilst simultaneously providing suppliers with additional income generation opportunities. Win, win and win!

LPG Applications

The LPG Applications Power Play was the forum for reflection on the new developments in the area of LPG applications. Views were shared amongst the panellists on those applications that show a promising future and particularly with renewable Liquid Gas. The new WLPGA Liquid Gas for Fuel Cells was also presented in this session.





Autogas Day

Moderator Angelique Berden opened a packed Autogas Day programme by introducing James Rockall who stressed how important Autogas volumes are for the industry, accounting for around 10% of the non-chemical demand. Andrea Arzà, President of Assogas Liquidi Italy presented the Autogas picture for Italy before Jack Greenwood of Argus Media presented a summary of Autogas demand globally and regionally suggesting big opportunities in the future.

Sergio de la Torre from Renault presented a positive position from an OEM perspective but asked the LPG industry to produce more consistent quality product and more filling stations in the countries where Renault operate. Sergio answered several questions from the floor before the first panel addressed the topic of the Autogas Proposition. The other two panels discussed the challenges and opportunities for Autogas and some of the latest innovations.

Delegates visited the Autogas Village where nine LPG powered vehicles were on display.





Relive Autogas Day in Video



Global Science Council - Part 1

The first WLPGA Global Science Conference (GSC) was launched by Nikos Xydas. Dr Keith Simmons of SHV Energy introduced the programme by reminding delegates of the need for the industry to transition to both the production and the distribution of renewable liquid gas. The first presentation, from Mr Ignacio Verdugo, outlined the modelling and verification work being undertaken, on the combustion of the e-LPG, expected from a pilot plant in Chile, built to produce e-gasoline, and e-LPG as a by-product. The second presentation, by Ms Hafsa Karroum, the details of the development of Project KatJa whose aim is the on-purpose production of Renewable LPG from bioethanol. The next presentation, from Mr Masayuki Fukushima, explained a planned project to produce Green LPG from biogas in Japan, as an alternative to generating electricity. Finally, Ms Galina Skorikova, described the development of a demo-phase project built to generate rDME from captured CO2 and green hydrogen, using Sorption-Enhanced Dimethyl Ether Synthesis also known as SEDMES.



Global Science Council - Part 2

During the second part of the GSC, Ms Natalia de Almeida Menezes described a case study of a Life Cycle Assessment (LCA), undertaken in Brazil, that evaluated the carbon intensity of bioLPG produced from an HVO pathway, using a soyabean feedstock.

Global Science Council - Part 2 (continued)

During the second part of the GSC, Ms Natalia de Almeida Menezes described a case study of a Life Cycle Assessment (LCA), undertaken in Brazil, that evaluated the carbon intensity of bioLPG produced from an HVO pathway, using a soyabean feedstock. Ms Candace Eslick next described the synthesis of CO2 and green hydrogen to produce rLPG, via the production of DME as an intermediary step, for clean cooking in Africa. The rLPG output from the process includes a proportion of DME which has been shown to have a negligible impact on the energy intensity of the final fuel. Mr Pedro Ortiz-Toral described the Cool LPG process developed by GTI that uses biomass as a renewable feedstock. The Cool LPG name is derived from the cool reforming part of the conversion process. Inputs to the process can include solid biomass but also biogas and alternatively CO2 and H2. Finally, Mr Jude A. Onwudili from Aston University described results from the Pt-catalysed hydrothermal reactions of butanol for bio propane and biohydrogen production. One important feature of the process being investigated is its ability to handle wet feedstocks, which is usually the case for feedstocks derived from fermentation.



Global Science Council - Part 3

The third and final part of the GSC 2023 continued with a presentation from Mr Richard Heyn, Chief Research Scientist, SINTEF Industry, who provided details of the project Cozmos, a project about the conversion pathway of CO2 to renewable C3 propane. The second speaker in the session was Mr Sean Knecht, Associate Research Professor, Pennsylvania State University in USA, who talked about renewable energy powered plasma enhanced catalytic conversion of greenhouse gases to propane and butane.

The third presenter was Ms Natália de Almeida Menezes, a Master student at USP and RD&l Engineer in the University of São Paulo (USP) & Copa Energia, about modelling and optimisation of bioLPG supply chain in Brazil. The last speaker Pr Mohammad Asadi, Assistant Professor in the Illinois Tech. from the USA, was not able to join physically the event in Rome. A video recording of his presentation was shown, on the subject of Renewable Propane Production via Carbon Dioxide Electrocatalysis.

The last session was followed by a short break to allow the selection committee to discuss the submitted papers and presentations and finalise the awards for the winners of GSC 2023.

The winner of GSS 2023 was GTI Energy, for the Cool LPG: A Renewable LPG Production Technology, presented by Mr Pedro Ortiz Toral. The runner up was TNO, for the Next generation rDME from CO2: a clean and green replacement for LPG by Sorption Enhanced Dimethyl Ether Synthesis (SEDMES) presented by Ms Galina Skorikova. All the awards were presented to the winners by the WLPGA CEO James Rockall.



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Relive GSC in Video





For AGN Energia it has been an honour and a pleasure to contribute to this event and to the success of LPG Week in Rome. AGN's main business is the distribution of LPG. However, following the strategy of the group, we decided to diversify our business in the energy sector, more and more into green activities. Also we planned to invest in R&D for a new renewable molecule. So we are convinced that a new market approach is necessary, not only for our current business, but also for a long-term strategy. In our industry there's enough experience and knowledge to let Liquid Gas to be an important player in energy transformation and I think that each of us can bring his contribution. So I believe that it is increasingly important to share ideas, much more than in the past. In my idea, in the future we will have to be closer to each other, putting the word "cooperation" on top of our priorities and also increasing relationships between national and international associations will be more and more important."

Mr Marco Roggerone CEO AGN Energia SpA

EXHIBITION, AUTOGAS VILLAGE & MARKETPLACE

LEARN, NETWORK AND DO BUSINESS

The exhibition was again THE central hub of the week. It was a unique showcase for LPG companies to present their cutting edge technology, industry equipment, latest innovations and key services.

Attendees had the ability to meet face-to-face or virtually with partners to engage new or continue ongoing business.

170+ EXHIBITING COMPANIES
+1,800 SQM ONSITE

9 LPG POWERED VEHICLES DISPLAY





VIDEO ON DEMAND

VARIETY AND VOLUME

A great feature of the hybrid LPG Week has been the flexibility regarding the sessions. Attendees who missed a live or pre-recorded session can still catch the content until February 20th 2024. Presentations are also available online for continued access.

During the week, alongside the onsite and live sessions, pre-recorded sessions ran in parallel from our partners. These videos provided additional content for all the attendees.







LPG WEEK
PLATFORM,
SWAPCARD
IS OPEN
UNTIL
FEBRUARY
20th 2024













THANK YOU TO OUR MEDIA PARTNERS











GAZ D'AUJOURD'HUI























THE WLPGA TEAM



ABOUT WLPGA

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

www.wlpga.org @WorldLPGAssoc



2024/CAPE TOWN





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