



WORLD BIOGAS ASSOCIATION

#makingbiogashappen

Annual Review 2022



worldbiogasassociation.org



Message from our Chief Executive



As the global biogas industry is growing at an unprecedented pace, so is the leadership of the World Biogas Association. Geopolitical events such as the energy crisis compounded by Russia's invasion of Ukraine combined with the recent focus on tackling methane

emissions to achieve near-term climate targets, have led to greater demand for biogas. Indeed, BP's latest energy outlook report forecasts a 25-fold increase in biogas by 2050, whilst the International Energy Agency (IEA)'s most recent annual energy report predicts that the sector will see growth of between 7 and 11.5 times between now and 2050 – an annual growth rate of 13 per cent to 2030 and 11 per cent to 2050 making it the second highest growth sector after hydrogen.

During the past twelve months, the WBA has focused its efforts on ensuring UN bodies, other international organisations such as the IEA and governments around the world understand that by recycling readily available methane-emitting organic wastes into biogas and biofertilisers, our industry alone could deliver 50% of the Global Methane Pledge (GMP). Our report will be launched on 3 November and will highlight the key steps necessary to deliver the GMP, including the urgent need to rapidly deploy biogas technologies and related infrastructure in both the developed and developing world.

At the same time the WBA has been working to ensure the industry is well placed to capitalise on the renewed ambition for biogas. To make this possible, all nations will need a highly skilled workforce alongside consistent standards to ensure AD plants are designed, built and operated well, supportive policies and regulations, shorter timescales to obtain permits and datapoints showing where their biogas industries are in relation to the rest of the world and, more importantly, where they could be. To help nations implement this as fast as possible, the WBA has been developing its [#makingbiogashappen](#) programme, a

series of interlinked initiatives aimed at accelerating biogas adoption, removing barriers to growth and empowering governments & regulators to establish the frameworks & steps necessary to ensure all collectible organic wastes are recycled through AD.

In the past year, we have travelled to Muscat, Brussels, Bordeaux, Washington DC, Copenhagen, Johannesburg, Italy and will be present in Egypt for COP27 to discuss delivery of the biogas agenda and forge partnerships to support our mission to recycle all readily available organic wastes through AD. At Sharm el Sheikh we will continue our discussions with influential organisations involved in the delivery of the GMP and will also be hosting a panel discussion to highlight our industry's potential to achieve the GMP and demonstrate its co-benefits. The event and our WBA stand will be in the Blue Zone, the restricted area of COP where the negotiations take place.

While biogas' promise of energy independence, food security and GHG emissions reduction is boosting growth, the proposed amendments to the GHG Protocol, a widely used international standard for corporate accounting and reporting emissions, threaten to halt it. The WBA is leading the industry's engagement with the World Resources Institute (WRI) to oppose such changes, and/or find solutions.

The above efforts have run alongside our technical workshops, market intelligence reports and networking events to support all of you, our members, in your vital work on the ground. Without your invaluable engagement and support, we would not be able to be the voice of the global biogas industry and achieve everything we have done this year. This report will walk you through some of these achievements – thank you for making them possible.

Charlotte Morton
Chief Executive, World Biogas Association



Advocacy & Engagement

World Biogas Summit 2022 Keynote Speakers:



- **Rick Duke**, The Senior Director and White House Liaison for the Special Presidential Envoy for Climate John Kerry, and co-chair of the Climate & Clean Air Coalition (CCAC) Working Groups.



- **Frans Timmermans**, Vice-President of the European Commission.



- **Samira Bawumia**, 2nd Lady of Ghana, Ambassador for the UN backed Global Alliance for Clean Cookstoves and winner of the prestigious Ashden Award in recognition of her efforts towards the United Nations' Sustainable Development Goal (SDG) 7, to ensure access to modern reliable, renewable and affordable energy for all by 2030.



- **Carolina Urmeneta**, Circular Economy Program Director, and Americas Regional Lead for The Global Methane Hub.



- **Dolf Gielen**, Director, IRENA Innovation and Technology Centre.



- **David Sonnenberg**, Co-Founder, Uhuru Energy.

WBA attended/will attend and be presenting at:"



- **Bioshare Series #6 Webinar** focused on Indonesian biogas market.
- **UNIDO co-led Side Event at the 2022 Science, Technology and Innovation Forum.** The Gender and Energy Compact: Catalysing Action for a Just, Inclusive and Gender-responsive Energy Transition.



- **4th UK - Poland Business, Trade and Investment Forum** organised by Poland Department for International Trade.



- **3rd Global Waste Management Conference.**



- **CCAC Waste Hub - Full Hub Meeting.**



- **GMI Biogas Annual Meeting.**



- **4th South Brazilian Biogas and Biomethane Forum.**



- **International Biogas Congress Expo.**



- **Bio-LNG Forum (virtual).**

- **Global Methane, Climate and Clean Air Forum (CCAC and GMI Annual Meeting in Washington).** Charlotte Morton, WBA Chief Executive met with the Chairs of the GMI Biogas Committee, President of IGSD, CEO of Global Methane Hub, Director of CCAP, Director of Global Climate Programme at GAIA, Waste Hub Coordinator of the CCAC, representatives of WRI, USA EPA and others at the Forum to discuss areas for collaboration.



- **Danish Energy Agency Conference (Copenhagen).**



- **The 2nd International Conference on Accelerating Stop Food Loss and Waste for a net-zero future (Cairo, Egypt).**

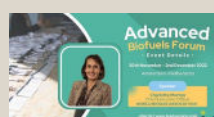
- **SABIA roundtable (Johannesburg, South Africa).** Charlotte Morton met with South Africa's Environment Minister to discuss how the government can support the development of the country's biogas industry.



- **WasteCon (Johannesburg, South Africa).**



- **COP27 (Sharm el Sheikh, Egypt).**



- **Advanced Biofuel Forum (Amsterdam, Netherlands).**



Advocacy & Engagement

THE WORLD BIOGAS EXPO 2022 THE WORLD BIOGAS SUMMIT

In numbers:



4,000 total registrants



1800+ decision makers



Delegates from **119** countries (Europe, Africa, Asia, Australia and Pacific, Latin America, Middle East and North Africa, North America, South East Asia and Pacific Rim)



84% of visitors rated event good-excellent



89,000 website visits



500,000 social media impressions



60+ speakers



133 exhibitors



The World Biogas Summit and Expo 2022 was a great event to keep abreast with most recent policy, market and technology developments in the Anaerobic Digestion industry.

**Matsekana Ronald Ragoasha,
BoomOrganix (Pty) LTD**



The event was a great chance to see the latest innovations in the business, get advice from suppliers and talk to like-minded people.

David Cooper, British Sugar



Engaging with leading international bodies



GREENHOUSE GAS PROTOCOL

accounting standard), to ensure the industry's interests are properly represented and solutions found.

WBA is representing the global biogas industry in a review of the proposed amendments to the GHG Protocol (the world's most widely used greenhouse gas

The current proposals suggests that biomethane certificates (and other market-based mechanisms) could not be reported under the revised GHGP Scope 1, 2 or 3 emissions, due to concerns about offsetting and greenwashing. The WBA has been leading the response from the global AD sector to ensure certificates can continue to be used to support the growth of AD and provide a clear mechanism to pay AD plants outside of direct government subsidy. A consultation period closes on 30th November 2022, where WBA will be formally responding to WRI.

WBA is an accredited member of:



CTCN

CLIMATE TECHNOLOGY CENTRE & NETWORK



CLIMATE & CLEAN AIR COALITION
TO REDUCE SHORT-LIVED CLIMATE POLLUTANTS



UNFCCC

WBA collaborates closely with organisations such as:



Food and Agriculture Organization of the United Nations





Building a global network

Training & Knowledge Exchange

Creating networks to encourage knowledge exchange, to understand best practice, and market opportunities, to enable inward investment and the rapid deployment of biogas, is a key part of the WBA mission. We work closely with international partners to deliver a raft of training programmes, market reports and roundtables to advance the industry globally.

The WBA created business opportunities for our members, often with the help of international partners;

- The WBA partnered with experts from the Food & Bio-Cluster Denmark and Biogas Go Global to deliver a series of "Biogas Masterclasses with Danish Experts" on biogas production and plant optimisation (see below). Topics included "Pretreatment solutions for biogas production", "Manure and Digestate", "Sustainability and methane leakage".
- WBA hosted webinars for Texaco Lubricants and WANGEN PUMPEN
- With guidance from WBA's Policy, Innovation and Technology Committee (PITC), the WBA established five new Working Groups: 1) Education and Outreach; 2) R&D: Biogas and Other Renewable Fuels; 3) Women in Biogas; 4) Finance; 5) National Associations Roundtable.

COP27

WORLD BIOGAS ASSOCIATION
Making Biogas Happen
14 - 17 November
Blue Zone, Stand Number 22 (Agriculture, Food and Land)
WORLD BIOGAS ASSOCIATION AT COP27

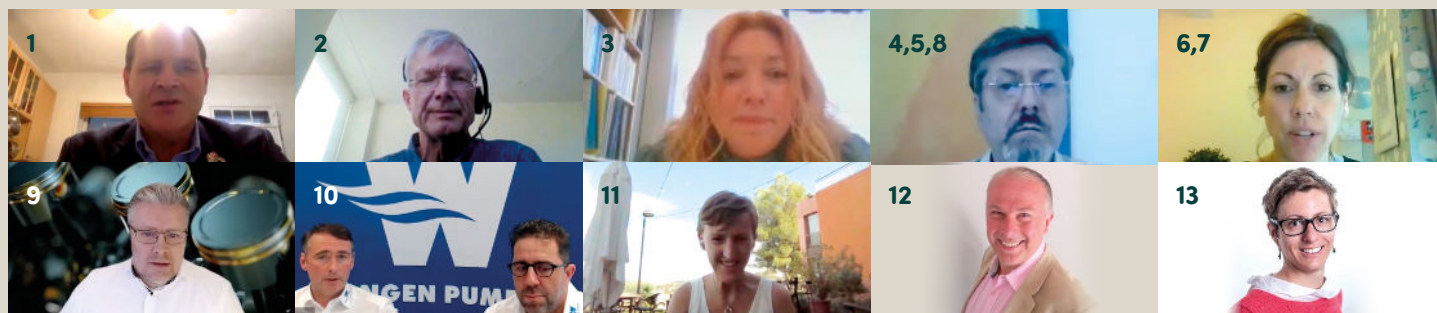


"The WBA will have a stand in the Blue Zone of COP27, where we will advocate for a future where organic wastes are regarded as valuable resources and biogas is key to recycling them, as well as a key component of energy transition. In partnership with the Global Alliance for Incinerators Alternative (GAIA), we will also co-host a panel discussion, discussing how biogas can contribute to delivering the Global Methane Pledge (GMP) as committed to by over 100 countries at COP26.

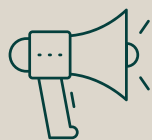


We are also excited that COP 27 host, the Egyptian Government, is planning to launch the *Global Waste Initiative 50 by 2050* at COP – an initiative which will commit the African continent to recycle and treat 50% of its waste by 2050. In many areas of Africa, c.50% of waste is organic and as such, the initiative presents a huge opportunity to develop the biogas industry in the region. WBA has joined one of the working groups established by the Egyptian Government to deliver the initiative and ensure that the role of biogas is recognised as being critical to achieving this ambitious target.

The pictures below illustrate the range of speakers who engaged with WBA over the year, at and, as a result, presented at some of our events:



Biogas Masterclasses with Danish Experts: [1] **Chris Voell**, Danish Trade Council of North America Ministry of Foreign Affairs of Denmark Royal Embassy of Denmark in the US [2] **Erik Fog**, Senior Advisor, Innovation Centre for Organic Farming [3] **Charlotte Scheutz**, Professor, Denmark Technical University, Department of Environmental Engineering, Section leader Climate and Monitoring
WBA Training Courses: [4, 5 and 8] **Mario A. Rosato**, Chief Executive, Sustainable Technologies [6 and 7] **Angela Cronje**, Technical Consultant, ROOTS Recycling of Organics **WBA Webinars:** [9] **Michael Guelck**, Business Development Specialist, Texaco Lubricants [10] **John Booth**, Regional Sales Manager, WANGEN PUMPEN and Raam Badde-Morgenthaler, Application Engineer, WANGEN PUMPEN
WBA Working Groups: [11] (Chair) **Amaya Arias-Garcia**, Business Development Manager, Nortegas Green Energy Solutions [12] **Keith Simons**, Head of Research and Development, SHV Energy [13] **Lily Bernadet**, New Business Development, Storengy



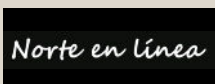
Raising the profile of the industry

WBA was cited in 104 different publications across the globe with a combined audience of over 450M. More than 250 articles were published covering Europe (UK, France, Germany, Italy, Spain, Belgium, Netherlands, Turkey, Ukraine), America (USA, Canada, Brazil, Argentina, Mexico), Africa (Nigeria, Egypt, South Africa), Asia (Korea, China, Indonesia, India, Arabia, Oman, Israel) and Oceania (Australia).

Seven academic papers referencing WBA were also published by MDPI and Frontiers In Plant Science.

What attracted coverage?

- WBA attending and speaking at COP26 in Glasgow, UK
- Academic papers and industry news referring to WBA research
- WBA member news (news of Oberon joining WBA achieved an 83M reach across 57 outlets, including YahooFinance!; also Suad Said Al Hosni joining the WBA Council, Anaergia, FPT, SABIA, Energen and CioBas press releases).
- World Biogas Summit/Expo and AD & Biogas Industry Awards
- Our CEO Charlotte Morton OBE speaking at numerous international events (WG2022; GIZ)



Sharing market and technical insight

WBA will continue to develop & refine modelling tools such as the WBA Methane Calculator and Cost Calculator. We will continue to enhance market insights through harvesting and benchmarking biogas data and we will continue to publish reports and insight pamphlets covering market and technological developments from across the globe.



Our mission

To empower the anaerobic digestion (AD) and biogas industry to fulfil its maximum potential by:

- enabling the rapid growth of new & existing markets.
- driving international standards and best practice to rapidly scale up AD and related infrastructure.
- advancing and optimising biogas industry outputs through training, learning and development, knowledge-sharing and expertise.
- telling compelling success stories that showcase renewable gases, biofertilisers, bioCO₂ and other valuable bioproducts' critical role at the heart of a sustainable future.

Support the mitigation and adaptation to climate change through:

- the recycling of organic wastes caused by human activity, extracting maximum value from them and thus reducing greenhouse gas emissions by 10% annually.
- helping countries, cities, continents & corporations achieve net zero and contribute towards keeping global warming below "2°C, ideally 1.5°C".



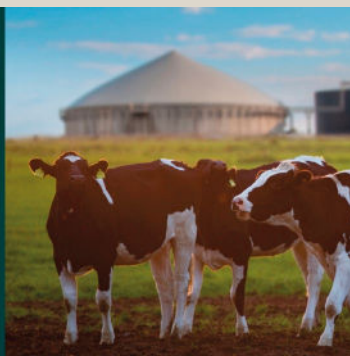


Coming up in 2023



Biogas Insight 1

Pamphlet Launch Delivering the Global Methane Pledge



Delivering the Global Methane Pledge – One year on from the launch of the Global Methane Pledge (GMP), over 125 countries have now committed to reduce global methane emissions by at least 30% from 2020 levels by 2030 to limit global warming to 1.5°C. Deploying biogas to its full potential could deliver ~50% of the pledge and whilst the initiative draws attention to the need for a rapid reduction of methane emissions, these pledges must now be turned into urgent action. The WBA will be publishing its report highlighting the critical role biogas can play in reducing methane emissions and delivering the GMP.

WBA will build on the success of our working groups, and will be expanding these to include policy and finance groups to facilitate knowledge sharing and support industry development.

WBA will be publishing key policy briefings on hydrogen, women in biogas, and a policy toolkit among others.

WBA will be joining the Biomethane Industrial Partnership which aims to support the achievement of the EU target to increase annual production and use of biomethane to 35 billion cubic metres by 2030.

WBA will continue to represent the industry at events and conferences around the world.

WBA will launch the World Congress Series, a series of live biogas event programs hosted in key cities around the world, delivered in partnership with our member National Associations. Each Series event addresses delivery of the biogas potential within a specific country or region, and draws upon know-how, case studies and solutions from WBA members around the world.

WBA will develop its #makingbiogashappen initiative, a series of interlinked programmes to accelerate biogas adoption, remove barriers to growth and empower governments & regulators to establish the frameworks & steps necessary to ensure all collectible organic wastes are recycled through AD.

- **Market report launch: Indonesia**
- **Market report launch: Brazil** (tbc)
- **WBA Insight: Food Waste**
- **WBA Insight: Hydrogen**
- **Women in Biogas** – Global survey report
- **Biogas Policies Toolkit**



We're only a phone call, e-mail or meeting away...

Have a question about your membership?
Contact the membership team on +44 (0)20 3176 0503 or
membership@worldbiogasassociation.org

Seeking advice? Want to get connected to influential contacts? Reach out to our Chief Executive, **Charlotte Morton**, at cmorton@worldbiogasassociation.org



WORLD BIOGAS
ASSOCIATION

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