



WORLD BIOGAS
ASSOCIATION

Welcome to WBA

Making biogas happen





To empower the anaerobic digestion (AD) and biogas industry to:

Fulfil its maximum potential by:

- enabling the rapid growth of existing and new markets.
- developing international standards and best practice to rapidly scale up AD infrastructure.
- advancing and optimising its outputs through training, learning and development, sharing knowledge and expertise.
- telling compelling success stories, showing renewable gases, biofertilisers, bioCO₂ and other valuable bioproducts sitting at the heart of a sustainable future.

Support the mitigation and adaptation to climate change through:

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





Our People



The WBA has a team of 18 dedicated professionals led by **Chief Executive Charlotte Morton**, who has led the industry in the UK for the past 11 years and was a driving force behind the creation of WBA, in response to demands from key industry players with international portfolios. **A world-renowned expert in AD and biogas development pathways** she now leads both organisations. Charlotte is a qualified lawyer and holds an MBA from the London Business School.



Our members



Membership has grown 33% pa since WBA launched in 2016



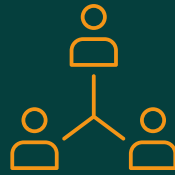
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Our members



Associations and regional groups





The WBA Executive sets the agenda using input and advice from the WBA Council

The Council is elected by members.

WBA Council

- **Alberto Borello**, Southern African Biogas Industry Association (**South Africa**)
- **Alex Marshall**, Clarke Energy (**United Kingdom**)
- **Chris Maloney**, Zenvirotech (**United States of America**)
- **Francois Huberts**, DMT Environmental Technology (**Netherlands**)
- **Gian Francesco Galanzino**, Entsorga Italia SpA (**Italy**)
- **Marta Kamola-Martines**, ENGIE (**France**)
- **Monish Ahuja**, PRESPL, (**India**) [tbc]
- **Nathalie Villain**, SUEZ – Water Technologies & Solutions (**France**)
- **Ole Hvelplund**, Nature Energy (**Denmark**)
- **Pierre Emmanuel Meyers**, Air Liquide (**France**)





Ad hoc working groups operate under the guidance of the WBA Policy Innovation and Technology Committee, chaired by Dr Keith Simons, Principal Chemist, SHV Energy.

Permanent working groups currently include:

- **Finance** – Focussing on two key workstreams:
 - (a) industry engagement with financial sector and
 - (b) developing the business case for AD.
- **Education and outreach** – Focussing on two key workstreams:
 - (a) developing educational material for a global audience and
 - (b) providing guidance on how best to access/enter the biogas market.

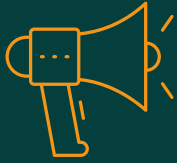
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- **R&D and hydrogen** – Focussing on two key workstreams:
 - (a) Establishing the alignment between biomethane and a hydrogen future,
 - (b) Address the “grand challenges” inhibiting industry growth, such that research applications can target key issues and deliver the greatest impact.
- **National Associations** – Focussing on knowledge exchange.

WBA Chief Executive Charlotte Morton with WBA Policy Analysts and Technical Managers host this regular platform to transfer knowledge across borders regarding new practices in the industry, new financial structures, enabling regulation and policy design changes, and macro-economic trends that are materially impacting the local AD industry both positively and negatively. This serves to facilitate commercial partnerships amongst all our members, improve capacity building (training and standardisation), and collaboration at national level for translated and nuanced industry messaging.



Advocacy, networking, training and standards, outreach

Advocacy

- **Landmark reports** – Global Food Waste Management, The Global Potential of Biogas, and Biogas: Pathways to 2030. www.worldbiogasassociation.org/wba-publications/
- **The Biogas Industry and Climate Change Declaration:** a commitment by leading WBA members from 13 countries to put their full resources towards reducing global greenhouse gas emissions by 10% by 2030 alongside a call for world government to unlock the industry's potential.
- **Country Profiles** – deep dive into market potential, in collaboration with National Associations.
- **Policy Briefings** – sector specific briefings, data driven tools for potential new markets.
- **Operational Guidance Notes** – best practice for operators and their workforce.
- **Monthly newsletter** – critical updates on policy initiatives, technical focus, industry developments, national association activity.

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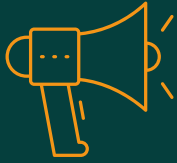
The cover of the report "Biogas: Pathways to 2030" features the World Biogas Association logo at the top. Below it is a photograph of a signpost with two signs: "Fossil Fuels" pointing left and "Renewables" pointing right, set against a blue sky with white clouds. The title "Biogas: Pathways to 2030" is written in white on an orange banner at the bottom of the image.

“ *If we do not address methane emissions from organic wastes all our efforts to tackle the climate crisis will fail. Anaerobic digestion is one of the ready to go, ready to scale technologies that can do this. The path we must take is clear.* **”**

David Newman, President
World Biogas Association

Sponsors

worldbiogasassociation.org

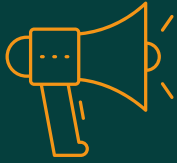


Networking

- **The annual World Biogas Summit and Expo**, featuring agenda-setting speakers such as Manager, Global Climate Action at UNFCCC Niclas Svenningsen, Mayor of Le Mans and former French Agriculture Minister Stéphane Le Foll, US Congresswoman Chellie Pingree, International Energy Agency Deputy Executive Director Keisuke Sadamori, representatives from the UK Department for International Trade, and executives from Nestlé, Arla, Amaresco, and many others.
- **Members' Meetings**, where members can share experience and help steer WBA activities.
- **Member Roundtables** to discuss lobbying strategy and stakeholder engagements (the Declaration is an outcome of such a roundtable).
- **Regular Technical Webinars** (tied to Country Profiles, Policy Briefings and Operational Guidance Notes).

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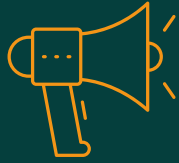
Training and Standards

- **WBA is in the process of establishing an International AD Certification Scheme** to develop a best operational practice benchmark globally, **alongside a comprehensive training programme** to support a workforce's transition to operate into the biogas industry and the consistent implementation of the Scheme. These are vital to ensure the rapid rollout of a high performing, professional industry worldwide.
- **A virtual learning management platform** covering all aspects of AD processes is also set to go live in Spring 2022.



ANAEROBIC DIGESTION CERTIFICATION SCHEME

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Outreach

We collaborate with and support National Associations through ministerial lobbying, knowledge exchange on policy and regulation, and operational best practice. For example:

- **Campaigning** WBA has written joint letters to national ministers in support of their lobbying, e.g, the Indian Biogas Association, Canadian Biogas Association, American Biogas Council, Southern African Biogas Industry Association and European Biogas Association.
- **WBA's 1st International Congress, Athens, 2019.**
- **Consultations.**
- **Third Party Events** – as guest speakers and exhibitors.
- **WBA 2nd International Congress, India** WBA has been asked to assist the Indian Biogas Association (IBA) develop a regional congress. The IBA emphasised the need to understand the policy and regulatory frameworks that operate in countries where the industry is mature, to enable and assist their nascent industry to rapidly develop.



“The 1st International Conference in Athens was an excellent opportunity for private and public stakeholders to exchange best practice in the fields of Anaerobic Digestion and Waste Management and to discuss innovative projects towards sustainable consumption and production.”

Athens Interim Mayor George Broulias, formerly the Vice Mayor responsible for Waste Management (2019).



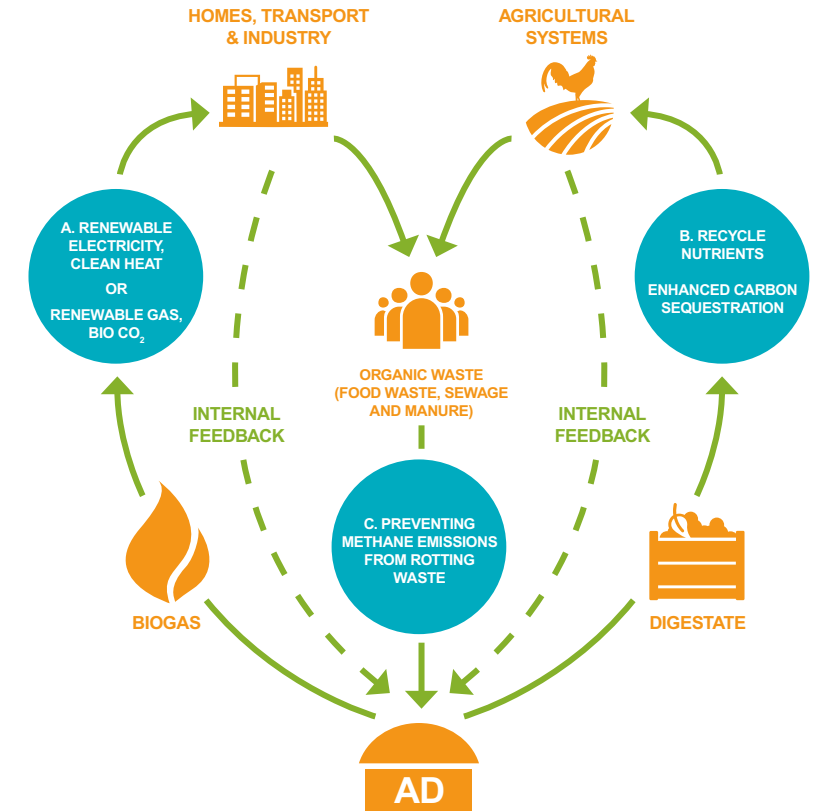


- **WBA** sits on collaborative working groups with:
 - the **Global Methane Initiative**, and;
 - the **Thematic Working Group on Agriculture, Food Security and Land Use (UN FAO)**.
- **WBA** is an accredited member of:
 - the **UNFCCC**, and;
 - the **Climate and Clean Air Coalition**.
- **WBA** is an Observer Party at the:
 - **Climate Technology Centre and Network Advisory Board Meetings**.
- **The International Energy Agency** were on the review group for the *Global Potential of Biogas* report, subsequently using WBA data for their *Special Report on Biogas and Biomethane*. **WBA** is in turn on the review body for relevant **IEA** reports.
- **The C40 Cities Climate Leadership Group** and **WBA** co-authored the report *Global Food Waste Management: An Implementation Guide for Cities*





- **Tender hub** – plants being commissioned, operation and maintenance contracts being awarded, plants for sale.
- **WBA is creating an AD training platform.**
- **Financial calculator** – Capex and Opex estimates, and potential revenue based on general policy design.
- **Biogas potential calculator** to estimate energy output and carbon savings per tonne of feedstock.
- **Shareable slide deck of biogas pathways to 2030** using content from the WBA Pathways report.
- **'Build your own plant'** – a combination of the two calculators above, this interactive tool will display costs and benefits together on input data of plant setup.
- **WBA database of AD plant numbers and industry capacity**, developed in association with National Associations.





- **WBA** worked in collaboration with **C40 Cities** on its report *Global Food Waste Management; An Implementation Guide for Cities*, which was launched in Rotterdam in 2018 and presented to the **UN Food and Agriculture Organisation**.
- The *Global Potential of Biogas* report, published in 2019, was welcomed by the **UNFCCC**. The **International Energy Agency** endorsed the report and subsequently adopted **WBA** modelling for its own landmark *World Energy Outlook 2019*.
- Over 300 delegates attended the launch of the *Biogas: Pathways to 2030* report in 2021. The report has had over 1,000 downloads in 80 countries and 7,250 views on the WBA website. WBA has received a request from Argentina for permission to translate and re-issue.
- The **WBA Declaration** (2019) was welcomed by the **UNFCCC**. Speaking at the inaugural **World Biogas Summit** in 2019, **Niclas Svenningsen**, Manager, Global Climate Action at UNFCCC, responsible for the delivery of the **Paris Agreement**, called biogas *“a win-win-win-win industry”*.



*“Win for turning GHG into energy;
Win by using that energy to replace fossil fuels;
Win by turning global waste, that releases dangerous levels of methane gas every day, into a valuable resource;
Win by creating jobs and contributing to the new low-carbon economy;
Win by offering a stable energy source that can be built and used even at the household scale in remote areas.”*

Niclas Svenningsen, Manager, Global Climate Action at UNFCCC





WORLD BIOGAS
ASSOCIATION

Join a winning team and help put the world on track
to keep global warming below 2°C, ideally 1.5°C.



Contact **Zain Keshavjee** to find out what value WBA can deliver for you and your organisation. +44 (0) 203 176 4414 e zkeshavjee@worldbiogasassociation.org

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World Biogas Association