



UK AD AND WORLD BIOGAS EXPO 2018

11-12 JULY, NEC, BIRMINGHAM

INSIGHT | INNOVATION | INVESTMENT



YOUR INVITATION TO THE WORLD OF ANAEROBIC DIGESTION AND BIOGAS

The largest international trade show solely dedicated to anaerobic digestion and biogas

3,000+
Attendees

200+
Exhibitors

100+
Speakers

50+
Hours of
content

UK AD AND WORLD BIOGAS EXPO 2018

- A unique platform to showcase and grow the anaerobic digestion and biogas industry
- Market developments, technological advances, products and services, finance
- Knowledge, best practice and success stories from around the world
- Unrivalled profiling, networking and trading opportunities

The global potential of anaerobic digestion and biogas is huge – come along and help make it happen!

2018 - A UNIQUE WINDOW OF OPPORTUNITY FOR ANAEROBIC DIGESTION AND BIOGAS

World governments are currently working on strategies to meet their Paris Agreement commitments, EU recycling targets and the UN Sustainable Development Goals. This presents the anaerobic digestion and biogas industry with a unique window of opportunity to demonstrate its value in reducing greenhouse gases emissions and developing a sustainable, circular economy.

However, we have less than two years to make the case for the industry.

As the largest international trade show solely dedicated to anaerobic digestion and biogas, **UK AD AND WORLD BIOGAS EXPO 2018** will offer the platform to showcase the industry's strength. There, you will find the knowledge, network, innovation and trade opportunities you need to grow your business and ensure the sector's long-term success in delivering a green and sustainable future for all.

KEY DATES:

JULY 2018

UK AD AND WORLD BIOGAS EXPO

2020

Countries must submit their nationally determined commitments to the Paris Agreement

2023

Deadline for EU member countries to implement separate biowaste collections

2030

The 17 United Nations Sustainable Development Goals must have been met



"The world faces a sustainability crisis – it needs to produce energy cleanly to meet growing demand, and find ways of improving air quality for a growing urban population. Anaerobic digestion does this. It also brings a benefit

that no other energy source offers – nutrients for soil. We have a wonderful story to tell and a game-changing sector to promote. Getting this message out to an international audience of policy makers is essential to enable our industry to flourish and help address today's global challenges."

David Newman, President, **World Biogas Association**



HELPING TO SOLVE TODAY'S GLOBAL CHALLENGES

By turning organic wastes into green gas and biofertilisers, anaerobic digestion has the capacity to reduce greenhouse gases emissions by 18-20% across the energy, waste, farming and transport sectors, as well as restore soil. The industry can therefore make a positive impact on many aspects of human living - from food and energy supply, air, soil and water quality to poverty, sanitation and immigration.

Anaerobic digestion and biogas have the potential to contribute significantly not only towards climate change mitigation but also towards 9 of the 17 United Nations Sustainable Development Goals to be delivered by 2030.

ON THE PROGRAMME

- Global anaerobic digestion growth – drivers, barriers and solutions
- Anaerobic digestion's pathway to meeting the UN Sustainable Development Goals
- Practical examples of the circular economy
- Where will anaerobic digestion be in 2030?
- Biogas as a brand
- The effects of climate change on the AD industry

UN SUSTAINABLE DEVELOPMENT GOALS

The areas where anaerobic digestion and biogas can play a key part:

CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT

Meets goal #13: Take urgent action to combat climate change and its impacts.

13 CLIMATE ACTION



ENERGY SECURITY

Meets goal #7: Ensure access to affordable, reliable, sustainable and modern energy for all.

7 AFFORDABLE AND CLEAN ENERGY



FOOD SECURITY

Meets goal #2: End hunger; achieve food security and improved nutrition; promote sustainable agriculture.

2 ZERO HUNGER



Meets goal #15: Protect, restore and promote sustainable use of terrestrial ecosystems; sustainably manage forests; combat desertification and halt reverse land degradation; halt biodiversity loss.

15 LIFE ON LAND



WASTE MANAGEMENT

Meets goal #6: Ensure availability and sustainable management of water and sanitation for all.

6 CLEAN WATER AND SANITATION



Meets goal #11: Make cities and human settlements inclusive, safe, resilient and sustainable.

11 SUSTAINABLE CITIES AND COMMUNITIES



SUSTAINABLE INDUSTRIALISATION

Meets goal #9: Build resilient infrastructure; promote inclusive and sustainable industrialisation; foster innovation.

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



RURAL EMPOWERMENT

Meets goal #3: Ensure healthy lives; promote well-being for all at all ages.

3 GOOD HEALTH AND WELL-BEING



Meets goal #5: Achieve gender equality; empower all women and girls.

5 GENDER EQUALITY



KEY THEMES OF UK AD AND WORLD BIOGAS EXPO 2018

FOOD WASTE MANAGEMENT

Anaerobic digestion helps divert food waste away from landfills, reducing the associated emissions. It also enables the green energy contained within food waste to be converted into transport fuel, electricity and heat, and the nutrients and organic matter to be recycled into digestate biofertiliser for soil restoration.

Effective food waste management enables municipalities to make the best use of this valuable resource.



BIOMETHANE FOR TRANSPORT AND HEAT

Biomethane generated through anaerobic digestion can be used as a low-cost, low-carbon transport fuel or injected into the gas grid to provide low-carbon heat – improving air quality, energy security and helping to address climate change.

AGRICULTURE

Anaerobic digestion can play a key role in sustainable farming, allowing farmers to recycle organic wastes such as manures, crop residues, vegetable off-cuts and process crops into renewable heat and power, clean transport fuel for farm vehicles, and nutrient-rich digestate biofertilisers, which are crucial to improving soil health.

FOOD WASTE MANAGEMENT

Food waste management – from food waste prevention and collection to transformation into biogas – is becoming an increasingly important aspect of climate change mitigation and improving urban living and soil health.

There is a growing international call to make better use of food waste as a resource. The EU has set a target for its members to implement separate biowaste collections by 2023. Other parts of the world will need to follow this trend to achieve their UN SDGs. Governments and municipalities need to develop and implement policies and ensure successful public engagement. Businesses need to help develop the supply chain and infrastructure.

UK AD AND WORLD BIOGAS EXPO 2018 will showcase successful case studies from around the world, and enable all players in the food waste management field to share their experience, learn and do business. Dedicated workshops and 1-2-1 clinics will be held alongside the main conference sessions and seminars, offering practical advice for the entire supply chain.

GLOBAL FOOD WASTE MANAGEMENT – AN IMPLEMENTATION GUIDE FOR CITIES

The **World Biogas Association**, in partnership with C40 Cities, has produced a landmark report on urban food waste, its environmental impact, and the benefits of separately collecting, treating and recycling it through anaerobic digestion. The *Global Food Waste Management – An Implementation Guide for Cities* report also features a how-to section to assist municipalities wishing to improve their food waste management. **UK AD AND WORLD BIOGAS EXPO 2018** will provide an opportunity to discuss the findings of the report and get advice on implementing its recommendations.

“By taking more ambitious action to improve food waste management, cities have the opportunity to make a significant contribution to reduce their GHG emissions, in addition to delivering meaningful local benefits like increased food productivity, reduced reliance on fossil fuels and better air quality and public health.”

Ricardo Cepeda-Márquez, Technical Lead – Food, Waste & Water Programme, C40 Cities Climate Leadership Group

ON THE PROGRAMME

- *Global Food Waste Management – An Implementation Guide for Cities* report – findings, recommendations and advice
- Understanding the life cycle of food waste treatment
- Infrastructure: Preparing to recycle all inedible food waste
- Delivering the benefits of separate food waste collections:
 - funding and policy
 - collection, pre-treatment, and education
- Increasing food waste collections from businesses and public facilities

WHO WILL BE THERE?

- Governments and municipalities including those from case study countries
- Specialist consultants/developers
- Waste management companies
- Product manufacturers (e.g. bins/bio bags)
- Food and drink manufacturers

BIOMETHANE FOR TRANSPORT

Anaerobic digestion produces biomethane that can be used as a low-cost, low-carbon transport fuel for passenger as well as large vehicles such as buses, lorries and farm vehicles. Switching to biomethane fuel can reduce greenhouse gas emissions by between 60% and 80% compared to existing fossil-based fuels like gasoline and diesel. In some countries, existing anaerobic digestion plants are already producing enough biomethane to run 80% of their bus fleets.

UK AD AND WORLD BIOGAS EXPO 2018 will cover all aspects of biomethane for transport. The conference will discuss the policies and infrastructure required to encourage the use of biomethane vehicles at no extra cost and look at successful examples from around Europe.



"The transport sector, especially the heavy goods hauling segment, has been particularly challenging to decarbonise, but things are about to change this year with the release from three major European manufacturers of heavy duty trucks with gas engines fully compatible with 100% biomethane."

Brad Douville, President, **Greenlane Biogas**

BIOMETHANE FOR HEAT

Biogas from anaerobic digestion can be upgraded into biomethane and injected into the gas grid to meet local heating demand. This renewable energy not only helps to reduce greenhouse gases emissions, but also enable countries to achieve greater energy security by becoming less dependent on imports.

UK AD AND WORLD BIOGAS EXPO 2018 will review how biomethane can best contribute to decarbonising the gas grid.



WHO WILL BE THERE?

- Local authorities, municipalities, government officials, politicians
- Vehicle manufacturers
- Fleet operators
- Grid operators
- Anaerobic digestion plant operators

ON THE PROGRAMME

- How to stimulate the biomethane-for-transport market
- Biomethane buses – case studies from around the world
- The UK biogas refuelling infrastructure
- Decarbonising the gas grid
- The future of green gas in the UK

AGRICULTURE

Global deployment of anaerobic digestion technology in agriculture, from intensive farming in the USA to small-scale applications in remote African villages, could play a major role in improving soil quality and achieve food security, in generating clean energy from wastes and crops to support local economies and in helping reduce deforestation. Technological advances can also significantly contribute to the growth of the agri-tech sector worldwide.

UK AD AND WORLD BIOGAS EXPO 2018 will highlight the benefits of anaerobic digestion in farming, from the reduction of greenhouse gases emissions to the development of agri-tech, and the value of digestate in fertilising soil and reducing costs. The show will also cast an eye on the anaerobic digestion farm of the future.



ON THE PROGRAMME

- Using anaerobic digestion to diversify farm income and drive farm productivity
- Finding help to build on-farm AD plants
- Digestate and soil restoration
- Digestate: adding value, marketing, biorefineries, and cutting the cost of management and disposal

WHO WILL BE THERE?

- Farmers and landowners
- Consultants and AD developers
- Agri-tech companies and financiers

ALSO ON THE UK AD AND WORLD BIOGAS EXPO 2018 CONFERENCE PROGRAMME...

EFFECTIVE ANAEROBIC DIGESTION PLANT OPERATION

- How to get the most from your AD plant
- Feedstock optimisation
- Emerging technologies

FINANCING ANAEROBIC DIGESTION

- Reducing the costs of building a plant
- Refinancing a plant
- Future opportunities for higher-value anaerobic digestion products

HEALTH, SAFETY AND THE ENVIRONMENT

- Developing a safety culture in the anaerobic digestion and biogas industry
- Anaerobic digestion best practice schemes around the world
- Managing environmental risks
- Technologies and practices to keep air and water clean

AND PLENTY MORE...

Visit www.biogastradeshow.co.uk for the latest programme and speakers' line-up...



EXHIBITORS INCLUDE:

- 2G Energy Ltd • A-Consult • Advantage Biogas • Air Liquide
- ALPS Ecoscience • Amur • Anaergia Ltd • Balmoral Tanks
- Bio Bang • BioConstruct • Birch Energy • Borger UK Ltd
- Bright Biomethane B.V. • BTS Biogas Ltd • Cavimax Ltd
- Clarke Energy Ltd • CooperOstlund • Cryo Pur
- DMT Environmental Technology • Edina • Evonik
- ExxonMobil • Fliegl UK Ltd • FM Bioenergy
- Future Biogas • Gen-C • Geotech • Greenlane Biogas
- Host Bio Energy UK Ltd • HRS Heat Exchangers
- Jelf Group • Landia UK • Malmberg Water AB
- Metamo Process Technology • MSE Systems • Omex
- Pentair Haffmans • Privilege Project Finance
- Qila Biogas Ltd • SGN Commercial Services • Siemens Plc
- Thyson Technology Ltd • Tramsread • Uniflare Group Ltd
- Vogelsang • Weltec Biopower (UK) Ltd
- Wolf Systembau GmbH • Xergi

BECOME AN EXHIBITOR

There are still opportunities for you to join this list and:

- Engage with the largest UK and international gathering of anaerobic digestion and biogas vendors, buyers and stakeholders
- Meet customers, collect leads and generate sales
- Showcase your products and services
- Raise your profile among your peers

To find out more, contact our sales team -

tel: +44 (0)20 3176 4414;

email sales@adbioresources.org

"This is always a good show. We've had a steady flow of visitors to our stand across both days and have met lots of new and old faces. There's been a good mix of people here, including funders. We've also met with a number of potential buyers from overseas."

Glen Lancaster, Sales Director, **Thyson**



**CELEBRATING
EXCELLENCE**
IN THE GLOBAL BIOGAS INDUSTRY



CELEBRATE EXCELLENCE IN THE INDUSTRY AT THE 2018 AWARDS CEREMONY

Every year, the **AD & Biogas Industry Awards** celebrate outstanding achievements in the global anaerobic digestion and biogas industry. On the first evening of **UK AD AND WORLD BIOGAS EXPO 2018**, the winners of this year's competition will be announced at a glittering ceremony and gala dinner.

Join us in congratulating them and recognising excellence and innovation in the industry. This will be the biggest celebration of anaerobic digestion and biogas globally and a great opportunity to network with the companies that are really making strides in the sector. You'll also be able to enjoy a delicious three course dinner and comedy entertainment too!

Book your place or a full table to entertain guests by contacting sales team - tel: +44 (0)20 3176 4414;
email sales@adbioresources.org



AWARDS SPONSORS



Align your brand with the best in the business.
Contact the team to discuss sponsorship options.

SPONSORS



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ENERGY & ENVIRONMENT



MEDIA PARTNERS



BECOME A SPONSOR / MEDIA PARTNER

There are still opportunities for you to join this list and:

- Raise your company profile by gaining prominence amongst your peers
- Enhance your reputation by association with market insight and thought-leadership
- Be recognised as a forward-thinking company for technology and innovation
- Gain exposure to an active and targeted audience through the organisers' marketing of the show

To find out more or request a sponsorship pack, contact our sales team - tel: +44 (0)20 3176 4414;
email sales@adbioresources.org
Bespoke packages are available.



ABOUT THE ORGANISERS



The **World Biogas Association (WBA)** is the trade association for the global anaerobic digestion and biogas industry, dedicated to facilitating the growth of the sector worldwide. We work to raise awareness and provide evidence of the anaerobic digestion and biogas industry's potential towards the development of a sustainable global economy, to facilitate business growth through international advocacy, knowledge-sharing and networking, and to support high standards of operation through the promotion of best practice, innovation and research around the world.
www.worldbiogasassociation.org



The **AD and Bioresources Association (ADBA)** is the trade association for the anaerobic digestion (AD) industry in the UK and companies and organisations working on novel technologies and processes that complement the anaerobic digestion process and products. With our members we promote the economic and environmental benefits of AD in the UK. We represent organisations from many sectors including: AD operators, AD developers, AD equipment providers, water companies, farmers, food & drink retailers, waste companies, universities and more.
www.adbioresources.org