



# UK Green Gas Day 2024

5th September 2024 | National Motorcycle Museum | Birmingham

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The REA and CNG Services have been running the Green Gas Day since 2012. It is the largest industry gathering in the UK focused on green gases, including hydrogen, with over 300 people attending all previous years.

Along with actions to accelerate the roll out of energy efficiency measures and the deployment of renewables, green gases such as biomethane and low carbon hydrogen are key to reduce our dependency on fossil fuels and reliance on imported gas from Russia, as well as to deliver an energy future which is independent, secure, and stable.

The UK has been active in the development of green gas plants in the past decade, but more needs to be done to help us become self-sufficient. The growth of the green gas sector in the UK has been mostly supported by the Non-Domestic Renewable Heat Incentive (NDRHI) and, more recently the Green Gas Support Scheme (GGSS). According to Government statistics, the UK has 143 biomethane to grid projects registered under the NDRHI, with a further 31 projects in the pipeline. The GGSS is expected to contribute 4.3 MtCO<sub>2</sub>e of carbon savings via natural gas displacement over Carbon Budgets 4 and 5, and 10.7MtCO<sub>2</sub>e of carbon savings over its lifetime.

With the announcement of an extension of the GGSS to March 2028 and the ambitions in last year's Biomass Strategy publication for increases in Biomethane production to 30-40TWh by 2050, the government are investigating a future biomethane framework. New financial models that are not reliant on subsidies are also emerging for biomethane plants and along with certificates (GGCS) includes carbon capture and storage, making biomethane carbon negative and particularly valuable for companies that need to offset their residual GHG emissions. Green gases supplied for transport under the Renewable Transport Fuel Obligation (RTFO) have also been growing rapidly in recent years, particularly biomethane. Mobility is also likely to be one of the key sectors to kick-start the development of the clean hydrogen sector in the UK.

In the UK and in the world clean hydrogen is currently enjoying an unprecedented political and business momentum as a versatile and sustainable energy carrier, but the right policy and regulatory framework needs now to be in place to support the rapid scale up of this sector and deliver the necessary cost reductions. Policy to support clean hydrogen is developing at a fast pace in the UK and much innovation is being carried out to facilitate the safe and sound deployment of hydrogen production, injection into the gas network and different hydrogen applications. Innovative projects are underway that are integrating renewable electricity generation such as solar and wind with batteries and electrolyzers, and injecting hydrogen into the National Transmission System.

# WHY ATTEND?

The REA and CNG Services have been running the Green Gas Day since 2012. It is the largest industry gathering in the UK focused on green gases, including hydrogen, with over 300 people attending all previous years.

This year's Green Gas Day, will look at recent and future policy developments to support green gases such as biomethane and clean hydrogen, as well as the latest changes that will impact the green gas market.

UK Green Gas Day 2024 will also highlight the latest technical developments and showcase the industry's latest innovation on green gas production, connection to the grid, blending, process optimisation, adding value and green gas trading.

Come to UK Green Gas Day to meet project developers and operators, financiers, feedstock providers, waste hauliers, technology providers and government officials. Visit exhibition stands from all of the major suppliers to the green gas industry.

**If you are involved in or interested in Green Gas, this is the one industry event in 2024 you can't afford to miss - it's THE event for the UK industry!**

## Who Should Attend?

- Green Gas producers
- Organic waste producers/processors
- Waste management companies
- Landowners
- Food manufacturers
- Sustainability managers
- Farmers
- Investors and Financiers
- Insurance companies
- Gas grid owners
- Gas shippers and suppliers
- Government bodies and Regulators
- Green Gas Equipment suppliers
- Local authorities
- Haulage companies
- Retailers
- Consultants

## Pricing:

### Delegate Bookings:

REA Member- £220+VAT  
GGCS Member- £220+VAT  
REA Non-Member- £299+VAT

### For Exhibitor/Sponsorship Details Contact:

julie.lazenby@cngservices.co.uk  
0121 247 8160

## Directions:

**By Car:** The National Motorcycle Museum is located directly off Junction 6 of the M42, directly opposite the NEC

**By Plane/Train:** Birmingham International is a short taxi drive away

National Motorcycle Museum, Coventry Road, Bickenhill, Solihull, West Midlands. B92 0EJ

To book your delegate place visit: <https://www.r-e-a.net/events/uk-green-gas-day/>

## Programme - Going Big!

09:00-09:30 Refreshments and Registration  
09:30-09:40 **Welcome and introductions** - Trevor Hutchings, CEO, REA

### UK and Net Zero - Presentations

09:40-09:45 **Chaired by David Hurren**  
Chair of REA Green Gas Forum  
09:45-10:00 **Biomethane Policy Update**  
Mark Davis, Department for Energy Security & Net Zero (DESNZ)  
10:00-10:15 **Maximising Green Gas**  
Nic Crowe, Grissan  
10:15-10:30 **Sustainable Biomethane**  
Lucy Hopwood, NNFCC  
10:30-10:45 **SGN & Green Gases**  
Antony Green, SGN  
10:45-11:00 **NTS & Biomethane**  
National Gas Transmission Speaker TBC  
11:00-11:10 **Q&A**  
**11:10-11:30 Morning Refreshments and Networking**

### Production and potential (with a European view)

11:30-11:35 **Chaired by Philipp Lukas**  
Future Biogas  
11:35-11:50 **Task Force 3**  
Nick Primmer, BIP  
11:50-12:05 **Green Gas in France**  
Annette Kroll, ENGIE  
12:05-12:20 **Production and potential (with a European view)**  
James Watson, Eurogas  
12:20-12:35 **European Market update**  
Harmen Dekker, European Biogas Association  
12:35-12:50 **PTx with Biomethanation - Experiences from Denmark**  
Reinhard Klimeck, Nature Energy  
12:50-13:00 **Q&A**  
**13:00-14:00 Lunch and Networking**

### End uses (which includes voluntary CO2 market) - Presentations

14:00-14:05 **Chaired by John Baldwin**  
CNG Services Ltd  
14:05-14:20 **Biomethane's role in supporting the delivery of Labour's 2030 Clean Power Mission**  
James Earl, Future Energy Networks  
14:20-14:35 **Biomethane for trucks**  
Philip Fjeld, ReFuels  
14:35-14:50 **Green thermos for the long-term: the versatile uses of biomethane in a sustainable economy**  
Rosanna Butters, Barrow Green Gas  
14:50-15:05 **Using biogenic CO2 - negative emissions or efuels?**  
Paul Davies, 7CO2  
15:05-15:15 **Q&A**  
**15:15-15:35 Afternoon Refreshments and Networking**

### Market Innovation - Presentations

15:35-15:40 **Chaired by Trevor Hutchings**  
REA CEO  
15:40-15:55 **RC project in Wales and West**  
Alison Cartwright, CNG Services Ltd  
15:55-16:15 **Transforming digestate into Premium Fertilisers**  
Robert van Spingelen, RecyFert B.V.  
**Digestate valorisation in a UK Context**  
Thomas Aspray, Solidsense Ltd  
16:15-16:35 **Reactivating high-sulfur activated carbons from biogas/biomethane facilities**  
David Reay, CPL Puragen  
**New innovations in activated carbon technology reduce CO2 footprint and cost**  
Tony Hood, Desotec  
16:35-16:45 **Q&A and closing remarks**

Correct as of 27.08.24

16:55 Close

# Speakers & Chairs



## **Trevor Hutchings, Chief Executive - REA**

Trevor Hutchings became Chief Executive of the REA in July bringing with him a wealth of experience in net zero, renewables and the clean energy transition. Most recently he was a Partner at international consulting group, BIP, leading their Sustainability Centre of Excellence. Before that he led the growth and diversification strategy at energy services firm Gemserv. Trevor spent much of his early career in Whitehall and with the European Commission in Brussels working on energy and environment programmes, including policies to support the renewables market in the UK. He also worked at WWF, the global conservation NGO, where he was Director of Advocacy, focussing on improving public policy and environmental governance. Trevor is chair of the Green Purposes Company set up by the UK government to safeguard the green mission of the world's first Green Investment Bank following its sale to Macquarie, the global infrastructure investor. He is a Fellow at the Institute of Environmental Management and Assessment and holds the IoD's certificate in corporate governance.



## **Robert van Spingelen, Innovation Broker - Organic Waste Valorization & Regulatory Affairs Specialist**

Robert van Spingelen brings over 25 years of experience in the fertilizer industry, having held various positions throughout his career. Since 2019, he has been working at RecyFert B.V. as an Innovation Broker, Organic Waste Valorization and Regulatory Affairs Specialist, and an expert in CE Marked Fertilizer Registration, focusing on recovered nutrients. Additionally, as a Business Developer for Organic Fertilisers at 2050 Group Ltd, he plays a pivotal role in developing the fertilizer factory to convert digestate into valuable fertiliser products. Van Spingelen also serves as the president of the Brussels-based non-profit company, the European Sustainable Phosphorus Platform (ESPP), where he is part of the management team working to improve phosphorus recycling and nutrient management.



## **Harmen Dekker, CEO - European Biogas Association**

Harmen is a passionate strategic leader devoted to climate change mitigation with 20 years' experience in the sustainability sector in the field of water and renewable gas. He joined EBA in 2019 to steer the growth of the biogas sector in Europe as a sustainable and circular pathway for gas decarbonisation.

In addition to his role at EBA, Harmen holds different positions in instrumental organisations working towards climate change mitigation and the energy transition. As Vice-Chair of the United Nations ECE Gas Expert Group, he collaborates with global gas experts on sustainable development on the topic of gas. Additionally, he is a governing Board Member of the Biomethane Industrial Partnership (BIP), involving the European Commission, EU Member States and the biomethane value chain. Beside this he is also Director of the Transatlantic Climate Alliance.

Harmen is a Chemistry Engineer and holds a BSC on Business Administration. He speaks Dutch, English and German.



## **John Baldwin, Managing Director - CNG Services Ltd**

John started his career as a graduate engineer in British Gas and BGE&P and worked on projects including South Morecambe, CATS and Armada. He then worked in Transco looking after the National Transmission System (NTS) in the period 1995 – 98 when many of the first wave of CCGTs were built as well as the UK-Continent Interconnector and a £350 Million expansion of the NTS. He has been President of the SBI (Society of British Gas Industries, now known as the EUA) and is a former Chairman of the Renewable Energy Association Biogas Group. His company CNG Services Ltd is a niche EPC Contractor and consultant in biomethane and hydrogen. John is also a Director of CNG Fuels who are building a national network of Bio-CNG filling stations connected to the high pressure gas grid and is a Director of Barrow Shipping Ltd which is the leading shipper focused on renewable gases. He has 41 years' experience in the gas industry, fossil and renewables.



## **David Hurren, Chair of REA Green Gas Forum**

David Hurren is the recently elected chair of the REA Green Gas Forum covering both Hydrogen and Biomethane in separate groups. As well as work with other trade associations he has a history in Biomethane stretching back to a first attendance at Biomethane Day in May 2014. Since that point he has been involved in AD, Upgrading, Virtual Pipeline, Refuelling Station and CO<sub>2</sub> recovery projects, now running his own consultancy DAH Renewable Consulting.



## **Nic Crowe, Government Affairs & Development Director - Grissan Renewable Energy**

Nic's role with Grissan sees him identifying routes to significantly scale-up biomethane's role in the UK energy system. Prior to joining Grissan, Nic was a civil servant with roles in a number of key Government Departments. This included time leading the Renewable Heat Incentive's reform agenda where he developed and implemented a number of policies designed to increase biomethane deployment.



## **Antony Green, Executive Director - Future of Energy - SGN**

Tony has over 30 years' experience in the Utility and Infrastructure sector, spending the last 6 years client side after 25 years in the international consulting sector at DNV, GL and Advantica. Prior to joining SGN he was Asset Director and then Hydrogen Director at National Grid Gas Transmission. Tony is a Chartered Engineer, a Fellow of IGEM (Institution of Gas Engineers and Managers) and CIWEM (Chartered Institute of Water and Environmental Management), a Fellow of the Royal Academy of Engineering and a Visiting Professor of Net Zero Engineering at Loughborough University.



## **Rosanna Butters, Managing Director - Barrow Green Gas**

Rosanna joined as Managing Director of Barrow, and its parent company Ceres Energy, in 2022. Barrow was the first biomethane shipper in Great Britain and provides gas shipping and supply services, as well as certificate marketing services. Collectively Barrow and Ceres are the leading shipper in GB and hold licences in the Republic of Ireland and in Northern Ireland. Prior to joining Barrow Rosanna spent seven years at Transport for London, where she was a senior project manager of multiple major engineering projects and TfL's Sustainability Ambassador for the pan-industry Major Projects Association. Her special expertise is in project delivery and organisational improvements.





## **Alison Cartwright, Operations Director - CNG Services Ltd**

Alison Cartwright has spent the last 13 years working in the biomethane industry. Having connected the first biomethane plants to the gas grid, she is now bringing together innovative solutions to facilitate multiple plants, including carbon capture, to be connected in one location to the high pressure grid, creating capacity in the gas grid with reverse compression and green hydrogen projects that support net zero. She is passionate about driving change in the connection process and looking at ways to reduce complexity in design, and process. A chartered mechanical engineer with a MSc in Renewable Energy Systems, she has worked on both connecting new biomethane projects to the grid and in day to day operations of biogas plants.



## **David Reay, Head of Strategic Partnerships - CPL/Puragen Activated Carbons**

David graduated with a Master's Degree in Chemistry and has enjoyed a varied and interesting commercial career in a number of industrial sectors. He has held senior B2B strategy/marketing roles in the activated carbon industry for over 16 years and is a Member of the Chartered Institute of Marketing. He is passionate about environmental issues and particularly enjoys communicating the numerous applications and benefits of activated carbon purification technology. David graduated with a Master's Degree in Chemistry and has enjoyed a varied and interesting commercial career in a number of industrial sectors. He has held senior B2B strategy/marketing roles in the activated carbon industry for over 16 years and is a Member of the Chartered Institute of Marketing. He is passionate about environmental issues and particularly enjoys communicating the numerous applications and benefits of activated carbon purification technology.



## **James Earl, Director of Gas - Energy Networks Association**

James leads the newly formed organisation 'Future Energy Networks' or 'FEN'. FEN represents those in the energy industry seeking to understand and enact the changes needed to deliver the energy networks of the future. FEN's current members are National Gas and the four Gas Distribution Networks. James has spent over a dozen years in the energy sector and was formerly Director of Gas at the Energy Networks Association. Prior to this, he worked in consultancy at the professional services firm KPMG and at the regulator, Ofgem.



## **Lucy Hopwood, Director & Lead Consultant for Bioenergy & Anaerobic Digestion - NNFCC**

Lucy has worked in AD for the past 20 years. She comes from an agricultural background and originally specialised in feedstock supply to the bioeconomy, focussing on agricultural, forestry and waste production systems before moving her focus to associated treatment and conversion technologies. Lucy and her team provide strategic advice, planning and technical support on bioenergy policies, technologies and markets to de-risk developers and investors decisions and to provide technical support to policy makers to help shape the future policy landscape



## **Paul Davies, Director - The Coalition for Negative Emissions**

Paul Davies is a director of the Coalition for Negative Emissions, an industry group focused on developing the carbon removals industry, Carbon Capture and Storage Adviser to energy from waste company Viridor, and a director of 7CO2: The Severnside Carbon Capture and Shipping Hub, which is developing a CCS hub at Avonmouth which will enable regional emitters of 8MTCO2pa to introduce CCS at their plants for storage and onward shipment from 7CO2. The hub is developing infrastructure for both direct carbon capture and storage as well as the development of efuels, meaning the regional producers of biogenic CO2 such as Viridor, will need to understand the alternative uses and economics of their biogenic CO2. renewable energy.



## **Philipp Lukas, Chief Executive Officer - Future Biogas**

Philipp is Chief Executive Officer of Future Biogas. Future Biogas is a team of 150 dealing with all aspects of biogas, from feedstock and biology through operations and maintenance, to all aspects of financial, regulatory and sustainability reporting. It has developed, built and operates 12 plants across the UK, making it one of the largest biomethane producers in the UK. Philipp's background is in law and renewables and is a passionate advocate for the role of biogas in the energy transition and enabling sustainable agriculture. He is a board member of the European Biogas Association, Co-Chair of the Biomethane Industrial Partnership Taskforce 3 and on the REA Green Gas Steering Group in the UK.



## **Dr Reinhard Klimeck, VP, Senior Business Developer - Nature Energy Biogas**

Dr Reinhard Klimeck is heading the team for New Products & Green Transport for Europe's largest biomethane producer Nature Energy AS in Denmark. Until May 2022, he was responsible for the Trading and Asset Optimization business of the German utility Trianel GmbH for several years. Prior to that, he worked for more than nine years as Vice President Structuring & Sales Trading at Uniper Energy Sales GmbH and before the change of name at E.ON Energy Sales GmbH and E.ON Ruhrgas AG. He started his career in the energy industry after holding positions in the Bayer Group at the Norwegian company Statkraft, Europe's largest generator of renewable energy. Dr. Reinhard Klimeck studied mechanical engineering and received his PhD in the thermodynamics of natural gases.



## **Tony Hood, Sales Manager UK - Desotec**

Tony spent over 30 years doing various technical sales and management roles in the Oil & Gas sector, before 'changing sides' and joining Desotec in 2020. He's lead the Desotec UK sales effort in the UK since then, with particular focus on the biogas and landfill gas sectors over the last two years.

**Thomas Aspray, Director - Solidsense Ltd**

Tom is a microbiologist by formal training which he has applied over the last 20 years to the assessment and optimisation of organic waste treatment processes. He has worked in both industry and academia through his career publishing numerous peer-review publications and industry leading reports on topics including microplastic analysis, compost/digestate stability and bioaerosol assessment. Tom is Managing Director of Solidsense Ltd, a specialist service provider for the organics recycling sector.

**James Watson, Secretary General - Eurogas**

James has been the Secretary General of Eurogas since January 2019. Eurogas is the association representing the European gas sector. Prior to Eurogas, James was the CEO of SolarPower Europe, the European solar industry association. Before joining SPE, he worked as the Director of Public Affairs for Weber Shandwick, specialising in energy and trade policy. He has over 15 years experience in Brussels policy making.

**Mark Davis, Corporate Finance Adviser - Department for Energy Security & Net Zero (DESNZ)**

Mark joined the Department in December 2019 to advise the Industrial Energy Transformation Fund (IETF) and other industrial decarbonisation policy areas. He moved to the Clean Heat Directorate in June 2023 to focus on Biomethane and Electrification. Prior to DESNZ, Mark worked for BluePath Finance and, before BluePath, as an analyst in the financial markets, focusing on clean technology and renewable energy.

**Philip Fjeld, Chief Executive Officer - ReFuels**

Philip Fjeld has been working in the international gas industry since 2002. In 2006 he founded FLEX LNG, a company that spearheaded the innovative concept of floating liquefaction vessels. Philip was the CEO of FLEX LNG from 2006 until 2013. In 2014 Philip co-founded CNG Fuels. He is a Director and CEO of CNG Fuels, which develops, owns and operates Bio-CNG refuelling infrastructure. The company is rolling out a UK-wide network of conveniently located refuelling facilities to service customer's HGV fleets. CNG Fuels' Bio-CNG fuel is 100% renewable and sustainable biomethane that is sourced from a waste feedstock. Philip has a nautical degree and has served as an officer in the Royal Norwegian Coast Guard. Philip earned his Master's degree in Strategy and Management from the Norwegian School of Economics and Business Administration.

**Nick Primmer, Policy Lead - Future Biogas**

Nick leads Future Biogas' engagement with government and associations, ensuring effective policies and regulations are in place for the delivery of Project Carbon Harvest – a venture to design and operate the UK's next generation of AD plants delivering Bioenergy with Carbon Capture and Storage (BECCS). Previously, Nick worked as policy lead at the World Biogas Association (WBA), where he has authored the report "Biogas: Pathways to 2030", recommending key policies to help scale up the biogas sector to its full potential.

**Annette Kroll, Head of Regulation and Advocacy - ENGIE**

Annette Kroll is responsible for regulatory and public affairs at ENGIE's Renewable Gas Business Unit, which comprises ENGIE's biomethane activities in France, UK, the Netherlands and further European countries. She is leveraging her expertise and contacts in Brussels to further develop the regulatory framework for biomethane across Europe to help ENGIE achieve its target of 10 TWh biomethane production by 2030 and to promote the growth of the sector. Annette represents ENGIE within the European Biogas Association and the Biomethane Industrial Partnership (BIP) – a joint initiative by the European Commission and the European biomethane industry. She has a long track record in renewable energy (power and gas) and many years of professional experience in European and Public Affairs, regulation, and management of strategic cooperations & partnerships within and outside the ENGIE Group in different countries.

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