



UK Biomethane Day 2013

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Reference

Introduction

The role of biomethane in the European energy market is about to change. Energy from biomass makes a significant contribution towards reaching the EC targets for renewable energies by 2020. And the field of application can still be expanded. As biomethane features the same characteristics as natural gas the possibilities of usage are many. At the moment the development in this field is slow or in many European countries still has to be initiated.

The GreenGasGrids projects aims to support the biomethane market to help 'starter' countries establish the technology and thereby increase the European biomethane production. Accordingly, throughout the duration of the project the following measures are undertaken:

- Hand-on know-how transfer to 'starter' countries
- Support finding solutions to market barriers
- Bring together potential business partners
- Promotion of biomethane in the countries with high potential but few activities

Aim of National Biomethane Feed-In Info days

During the course of the GGG project national Biomethane feed-in info days will be held in each of the partner countries. The aim of the info days is bring together national stakeholders of different areas of expertise and to inform them about the opportunities the biomethane production presents.

For the forerunner countries (Austria, Germany, France, The Netherlands, United Kingdom) these info days present the opportunity for business match-making, bringing together stakeholder and discussion of the current and future situation of the national biomethane market.

For the starter countries (Croatia, Hungary, Italy, Poland, Slovakia) the info days have the aim to provide decision-makers with technical and legislative advice for the implementation of biomethane projects. Further the occasion should be used for knowledge transfer from experts of forerunner countries to the stakeholders of the starter countries.

The following report gives a summary of UK Biomethane day 2013 and presents the results and conclusions obtained.

2nd UK Biomethane Day in United Kingdom

The 2nd UK Biomethane Information day was held on 21st May 2013, 9:30 am to 4:00 pm. The info day took place in the Conference & Exhibition Complex at the National Motorcycle Museum, Birmingham.

14 experts contributed as active speakers with focus in 2013 on Project Delivery

In addition to this, 16 companies chose to exhibit at the event.

Besides the speakers and exhibitors, a significant number of operators, producers and other stakeholders, as well as representatives of the gas distribution networks, clean-up and upgrading companies and regulatory bodies attended the event. In total, 215 people attending the conference and exhibition on the day.

Through the wide area of expertise presented by the various speakers, topics of all interests were covered and a detailed insight into the market situation obtained.

The conference was held in English.



Programme

The programme of the info day included presentations of experts of the field extensive opportunities for networking and an exhibition area. In between the presentations there were also time planned to be used for answering questions and discussion. The full conference timetable from the event is provided in Appendix 2.

The event started with the welcome of the participants by the Chief Executive of the Renewable Energy Association (REA). This was followed by a general overview of the UK biomethane market from CNG Services Ltd MD John Baldwin.

The focus then moved to current UK biomethane injection to grid projects, with presentations from key people involved in those due to be completed in 2013 or early 2014.

The presentations ended with an explanation of the Green Gas Certification Scheme, which is a not-for-profit scheme that tracks commercial transactions of biomethane through the supply chain; and an update on European projects, including BIOMASTER, Biomethane Regions and Green Gas Grids.





The UK Biomethane Day also had an area for exhibition stands, and a range of companies chose to exhibit at the event. These included companies from all points of the waste to energy chain, including companies involved in the following sectors:

- Gas Grid Owners (SGN, NGN)
- Gas quality monitoring and CV measurement instrumentation producers (e.g. Orbital, Future BioGast and Elster)
- Clean-up and upgrading of biogas to biomethane (e.g. Chesterfield Biogas, FloGas, Purac Puregas, Haffmans, Future BioGast, DMT/Heat and Power Services)
- Equipment suppliers (HAASE Energietechnik, Cubo Gas, Xperion Energy)
- Others (IGEM, Green Gas Certificates, Green Gas Trading, Barrow Shipping)
- EU Projects (BIOMASTER/Norfolk County Council, Green Gas Grids)





Presentations from the event

All the presentations given at the UK Biomethane Day can be viewed and downloaded via the following link: <http://cngservices.co.uk/biomethane-day-2013/>

Attendees

In total there were 215 attendees, including those exhibiting and presenting.

Appendix 1 lists all the attendees at the event.

Summary of the Event

UK Biomethane Day received very positive feedback from attendees at the event and the intention is to run it again next year, in April 2014. This will include the final reports from GGG, BIOMASTER and Biogas Regions Projects.

By having the focus on biomethane injection, the networking opportunities were very good.

The UK market is attractive for biomethane injection and the REA forecasts a potential 40 projects in the period 2013 to 20165. The majority of potential projects were represented at the UK Biomethane Day event.

There are 5 projects underway for completion before end 2013 and a further 10 for completion in 2014 - the intention is to have presentations structure around these at UK Biomethane Day 2014.

Feedback

Of the 49 responses received from attendees as part of a questionnaire on how they rated the event:

- 100% would recommend UK Biomethane Day to someone else
- 98% would attend UK Biomethane Day again
- 100% felt they left the event more informed about the industry than when they arrived
- 94% felt UK Biomethane Day was significantly better than other, similar events

"Great to see a positive reflection of the industry and its current & future growth; really positive day."

- Teresa Hogsbjerg, WRAP

"The UK Biomethane Day was an extremely useful and informative event. Some excellent presentations, well managed, and an excellent opportunity for networking."

- Clare Cattle-Jones, Energy Networks Association

"An excellent event bringing together the brightest and best from the industry."

- Ian Roe, BIOMASTER

"A wonderfully illuminating day with good breadth and begging a return next year!"

- Geoff Cooper-Smith, United Utilities

"An informative event which had got me quickly up to speed with the very positive developments in the sector and an appreciation of the key issues still to be addressed."

- Simon Griew, IGEM

Appendix 1: List of Attendees

Delegates

First Name	Second Name	Company
Syed	Ahmed	Green Gas Certification Scheme
Mary	Alexander	Northumbrian Water
Emma	Andrews	Burges Salmon LLP
Martin	Atkinson	Vector Business Services Ltd
Roy	Barclay	BKS Energy Ltd
Jeff	Barthram	WL & J Barthram
Robert	Beavis	Ofgem
William	Bedborough	Wales & West Utilities
Peter	Bense	Grontmij Ltd.
Hamish	Bichan	JV Energen LLP
Wayne	Boakes	GENeco
Marek	Bobak	MemBrain s.r.o.
Paul	Bonham	Biomaster
Trefor	Brayley	Saith Ltd
Steven	Broome	CPI
Diane	Broomhall	GL Noble Denton
Martin	Brown	GL Noble Denton
Andy	Bull	Severn Wye Energy Agency
Kenneth	Cameron	Energy Assets
Clare	Cantle-Jones	Energy Networks
Phil	Casper	PJ Casper Associates Ltd
Robert	Cato	Schneider Industry
Edward	Cattigan	Biogas Power Ltd
Ales	Cernin	MemBrain s.r.o.
Oliver	Chadwick	Department for Transport
Scott	Cherry	Cherry Design Solutions
Simon	Christian	Monsal Ltd
Ian	Clarke	MKS Instruments UK Ltd
Bert	Clegg	CRD Technology
Tom	Clothier	Wyke Farms Ltd
Richard	Collings	DETS
David	Collins	REA
Stewart	Conway	Faithful + Gould
Adrian	Cooper	Energy 10
Geoff	Cooper-smith	United Utilities
John	Cornes	Atlas Copco Compressors
Pat	Costello	IGET
Joe	Costin	Total Gas & Power Ltd
Jonny	Coxell	Saith Limited
Bryan	Creed	Technica Ltd
Samuel	Creed	Technica Ltd

First Name	Second Name	Company
Ewan	Cross	Wardell Armstrong
Peter	Crowe	Wartsila Water Systems Ltd
Alex	Curtis	National Grid
Matrtin	Dawson	Burges Salmon LLP
Michael	Doherty	Centrica
Ben	Donaldson	MT-Energie UK Ltd
Danny	Donegan	Energy 10
Vivienne Van	Duijneveldt	RWE Supply & Trading GmbH
Helen	Edwards	Tethra Energy
Robert	Ellis	Co-operative Group
Paul	Emmitt	ThyssenKrupp Uhde Energy & Power
David	Feakes	United Utilities
Michael	Felstead	Rob Heap Consulting Ltd
Jason	Fewell	Wyke Farms Ltd
Benjamin	Fillion	Air Liquide
Jeff	Fonero	Electrochaea
Mike	Foster	Energy & Utility Skills
Mark	Freeman	National Grid
Reynier	Funke	Agraferm Technologies
Mervyn	Gibson	Bryan Donkin RMG Gas Controls Ltd
Peter	Golden	New Earth Advanced Thermal Technology Ltd
Mike	Goldsworthy	NNFCC
Simon	Griew	IGEM
Victor	Guasch	HERA Holding
Delautre	Guillaume	Air Liquide
Nick	Gurney	Biomaster
Vidyanath	Gururajan	Branston
David	Hardy	MT-Energie UK Ltd
Ann	Harrison	Energy & Utility Skills
Tim	Harwood	Northern Gas Networks Limited
David	Hatherill	Finning (UK) Ltd
Ted	Hayden	Department of energy and climate change
Rob	Heap	Rob Heap Consulting Ltd
Teresa	Hogsbjerg	Waste and Resources Action Programme
Steve	Holton	Land and Marine Project Engineering Ltd
Paul	Hughes	MKS Instruments UK Ltd
Katy	Idle	E.ON Sustainable Energy
Martyn	James	J. Murphy & Sons Limited
Ben	Johnstone	Tamar Energy
Joanne	Kay	BOC Ltd
Will	Keown	British Gas
Paul	Kingston	
Nicky	Kirk	National Grid
Kristine	Kleidt-Gorton	Department for Transport
Tony	Knowles	Energy Innovation Centre
Norbert	Krutzler	Evonik Fibres GmbH

First Name	Second Name	Company
Graham	Lackey	Brit European
Paul	Lucas	AB Sugar
Robert	Luke	Total Gas & Power Ltd
Chris	Magness	Wales & West Utilities
Chris	Maltin	Organic Power
John	Mannion	BOC Ltd
Toby	Marlow	John Lewis Partnership
Sonia	Martins	Grontmij UK
Colin	Matthews	Joulevert
Ron	McIlwrath	Agrivert Ltd
David	Meadows	FLI Energy
William	Mezzullo	Future Biogas Ltd
Jonathan	Middlemiss	Honesty Foods Ltd
Florian	Mix	MT-Energie UK Ltd
Minhajuddin	Mohammed	E.ON Sustainable Energy
Paola	Mondadori	M2G Renewables Ltd
Kevin	Muggleton	Capita Symonds
Shane	Murray	ReFood
Tom	Naylor	Malmberg
Andrew	Neddham	Biogen
Oliver	O'Toole	Countrywide Farms
Timothy	Owens	Tethra Energy
Tom	Parker	Transport & Travel Research Ltd
Daniel	Parry	Veolia Water
Neil	Ratcliffe	United Utilities
Peter	Rayson	Barrow Shipping
David	Reay	Chemviron Carbon
Nathan	Reid	Land & Marine
Brian	Reynolds	Energy 10
Ian	Roe	Biomaster
Steve	Ross	Activated Carbon Services Ltd
Nathan	Ross	New Earth Advanced Thermal Technology Ltd
Beth	Rounsefell	Tamar Energy
Dan	Sadler	Northern Gas Networks Limited
Ben	Sage	UTS Biogas Ltd
Michael	Samways	E.ON Sustainable Energy
Alex	Savidis	Wardell Armstrong
John	Scott	Scott PDO Ltd
John	Scott-Kerr	Bidwells
Jonathan	Scurlock	NFU
Toby	Sedgwick	Veolia
Paul	Sephton	J. Murphy & Sons Limited
Luisa	Shelenko	GL Noble Denton
Michael	Skeemer	AVK UK Ltd
Tim	Slaven	AMEC Group Ltd
William	Smith	Addleshaw Goddard LLP

First Name	Second Name	Company
Tom	Smith	BKS Energy Ltd
Peter	Smith	Fiorentini uk ltd
Darren	Smith	GE Oil & Gas
Natalia	Sokolov	Clarke Willmott LLP
Chris	Sprackling	BKS Energy Ltd
Stuart	Stephens	NFPA
Colin	Stewart	BOC Ltd
Christopher	Stokel-Walker	Tethra Energy
Martin	Swift	Jacobs
Scott	Tamplin	ENERG-G Natural Power
Ian	Taylor	Glafy Ltd
James	Thorpe	Biomaster
Miquel	Torrente	HERA Holding
Hugh	Vaughan	Landia Uk Ltd
Nina	Von Groote-Lukas	Future Biogas Ltd
Daniel	Von Scheven	Acr Energy
Mike	Walters	John Lewis Partnership
Andrew	Warner	GFL Energy
Faye	Whitmore	Chemviron Carbon
Trevor	Whittaker	Kew Consult
David	Wright	JHWalter
Miroslav	Zgazar	MemBrain s.r.o.
Eddie	Zyla	CRD Technology

Speakers

First Name	Second Name	Company
John	Baldwin	CNG Services Ltd
Alison	Cartwright	CNG Services Ltd / Norfolk County Council
Simon	Farris	Severn Trent
Nick	Finding	JV Energen
Andrea	Godden	National Grid
Virginia	Graham	Green Gas Certification Scheme
Gaynor	Hartnell	REA
Dominic	Hofstetter	Electrochaea
Philipp	Lukas	Future Biogas
Alan	Midwinter	Scotia Gas Networks
Richard	Pomroy	Wales and West Utilities
Steve	Sharratt	Biogroup
James	Thorpe	Norfolk County Council / BIOMASTER
Iain	Ward	CNG Services / Springhill Farms

Exhibitors

First Name	Second Name	Company
Nicholas	Ageridis	Aerzen Machines
Matt	Kilgarriff	Aerzen Machines
Stephen	Mcculloch	Chesterfield Biogas Ltd
Glenn	Mercer	Chesterfield Biogas Ltd
Paolo	Guardigli	Cubogas Dresser
Coen	Meijers	DMT
Addy	Baksteen	Elster Metering Ltd
Andrew	Lings	Elster Metering Ltd
Peter	Woodford	Elster Metering Ltd
Andrew	Barkas	EnviTec Biogas UK Ltd
John	Day	EnviTec Biogas UK Ltd
Jörg	Fischer	EnviTec Biogas UK Ltd
Chris	Aston	Flogas UK Ltd
Dan	Hamley	Flogas UK Ltd
Maarten	Bouwer	Future Energy
Nathan	Schofield	Future Energy
Derek	Cross	Future Energy
Marcus	Kernick	Future Energy
John	Murphy	Future Energy
Ciaran	Burns	Green Gas Certification Scheme
Grant	Ashton	Green Gas Trading
Jens	Sluesing	HAASE Energietechnik GmbH
Niels Den	Heyer	Haffmans BV
Steve	Weston	Haffmans BV
Stuart	Bennett	Heat & Power Services Ltd
Linda	Mee	IGEM
Matthew	Sherwood	IGEM
Andrew	Alcock	Orbital Gas Systems
Paul	Clews	Orbital Gas Systems
Tony	Hales	Purac Puregas Ltd
Jan	Molin	Purac Puregas Ltd
Mark	Storey	Purac Puregas Ltd
Richard	Lowes	Scotia Gas Networks
Arthur	Robertson	Scotia Gas Networks
Colin	Small	Scotia Gas Networks
Rob	Wilby	Scotia Gas Networks
Gert-Jan	Rap	Xperion Energy

Appendix 2: Conference Timetable

UK Biomethane Day 2013

21st May 2013 | National Motorcycle Museum | Birmingham

Conference Timetable

Chair: Gaynor Hartnell, REA

9:30 Coffee and Welcome

10:00 Biomethane Market Overview
John Baldwin, CNG Services Ltd

Biomethane Projects

10:15 Rainbarrow Farm
Nick Finding, JVEnergen

10:35 Scotia Gas Networks Projects
Alan Midwinter, Scotia Gas Networks

10:55 National Grid Projects
Andrea Godden, National Grid

11:15 Break

11:45 Minworth
Simon Farris, Severn Trent

12:00 Stockport
Steve Sharratt, Biogroup

12:15 Doncaster
Philipp Lukas, Future Biogas

12:30 Lunch and Networking

14:00 Vale Green
Iain Ward, CNG Services Ltd
Richard Pomroy, Wales and West Utilities

14:20 Biomethane Production via Power-to-Gas
Dominic Hofstetter, Electrochaea

Biomethane Market

14:40 Green Gas Certificate Scheme
Virginia Graham, REAL

15:00 EU Biomethane Projects Update
Alison Cartwright, BIOMASTER

15:15 Norfolk Energy Futures
James Thorpe, Norfolk County Council

15:30 Q&A and Networking

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Appendix 3: REAL Green Gas Certificates Leaflet



GreenGas

CERTIFICATION SCHEME



Biomethane for Transport

There are many thousands of natural gas vehicles in Europe and millions worldwide. By making use of biomethane urban air pollution is cut and the running costs and engine noise levels are reduced.

Biomethane injected into the grid displaces natural gas and can be used as green gas by transport fleets cars and vans anywhere in the country.

Gas filling stations have been established close to the national gas grid at strategic transport hubs around Britain. Gas taken from the grid is compressed and can be used by transport fleets either as a mix with diesel or as 100% biomethane gas. Vans and cars which need more flexibility can be fitted with dual-fuel engines which run primarily on gas but can switch to petrol when out of range of a gas filling station.

The Green Gas Certification Scheme means that fleet operators can be sure that each unit of gas used matches a unit of biomethane injected into the grid, thus ensuring the green credentials of the gas.

Biomethane for CHP and district heating

There are many sites across the UK where CHP engines are used to generate electricity and heat. If the CHP plant is operating at a place where the heat can be used it is much more efficient. It will also have significant CO2 savings over conventional electricity generation and heating CHP plants that are connected to the grid can be run on green gas that has been produced and injected at another site.





GreenGas
CERTIFICATION SCHEME

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BARROW GREEN GAS



J V ENERGEN LLP





A guide to our **Green Gas Certification Scheme**
tracking contracts for green gas through the supply chain
to provide certainty for those that buy and sell it