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 **BARROW GREEN GAS**

BIOSURF
Fuelling Biomethane

 **CNG**
FUELS

GreenGas
CERTIFICATION SCHEME

Exhibition Packages Available

email: julie.lazenby@cngservices.co.uk

Sponsorship Packages Available

email: lauren.hamer@cngservices.co.uk

Confirmed Exhibitors:

Siemens, Ceres Energy, Greenlane Biogas UK, Cadent Gas, EnviTec Biogas UK, Air Liquide, Puregas Solutions, Pentair Haffmans, Elster/Honeywell, Thysons, Orbital Gas Systems, Flogas, Calor Gas, Xperion, Aerzen Machines, Pietro Fiorentini SPA, Host-Bio-Energy UK, Barrow Green Gas, CNG Fuels, Renewable Energy Association, CNG Services, Green Gas Certification Scheme, QILA Energy, Hitachi Zosen Inova, Cavimax / Farmergy, 4D AD Services, Geotech.

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

Pricing:

Delegates:

REA Member - £125+VAT

REA Non-Member - £175+VAT

Chair: Gaynor Hartnell - REA

10.00 Tea/Coffee and welcome

State of the Sector

10.10 **UK Biomethane Market Review**

John Baldwin - CNG Services

10.30 **Future Role of Biomethane in Decarbonisation of Heat & Transport**

David Parkin - Cadent Gas Ltd (Formerly National Grid)

10.50 **Sustainability and Plant Health**

Dr Michael Goldsworthy - NNFFC

11.10 Tea/Coffee break and networking

Waste Biomethane Projects

11.50 **New Projects in 2016-17**

Simon Farris - Severn Trent Water

12.10 **Green Gas and the Circular Economy**

Dr Charlotte Stamper - GENeco

12.30 **TBC**

David Hurren - Air Liquide

12.40 Lunch/Networking

Feedstocks - Old and New

- Accessing the biomethane potential of straw
- Feedstock handling & dosing for optimum biogas yield
- Hydrodynamic cavitation disintegration of feedstock and digestate

14.10 **Future Biogas Economiser**

Philipp Lukas - Future Biogas

14.25 **Cavitation**

Owen Yeatman - CaviMax

14.40 **Thermal Hydrolysis**

Keith Panter - Ebcor

14.55 **The Wave Box**

Dr Gerald Vollmer-Heuer-Power Recycling Energyservice GmbH

15.10 Tea/Coffee Break

Green Gas Certificates

15.30 **Enabling Cross-Border Biomethane Trades**

Attila Kovacs - European Renewable Gas Registry

15.40 **Market Update from the REAL Green Gas Certificate Scheme**

Jesse Scharf - REAL

15.55 **Leyland Bio-CNG Project**

Philip Fjeld - CNG Fuels

16.10 **Supply of Biomethane with Green Gas Certificates**

Tim Davis - Barrow Shipping

16.25 Close



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Invited Exhibitors:

Grid Companies

National Grid, Scotia Gas Networks, Wales & West Utilities, Northern Gas Networks

Equipment Suppliers

Greenlane Biogas, DMT, EnviTec, Air Liquide, Purac Puregas, Malmberg, Haffmans, Elster, Siemens, Thysons, Orbital, Flogas, Calor, Safe, Xperion, Aerzen Machines, Schmack Carbotech, Emersons

Gas Shippers

Barrow Green Gas, Total

Others

Renewable Energy Association, CNG Services Ltd, Green Gas Certification Scheme, EUA, OFGEM, Murphy Pipelines, QILA Energy, Hitachi Zosen Inova, Cavimax

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Pricing:

Early Bird: (Book before 31st March 2017)

REA Member - £75+VAT

REA Non-Member - £125+VAT

Standard: (From 1st April 2017)

REA Member - £125+VAT

REA Non-Member - £175+VAT

Chair: **Gaynor Hartnell - REA**

10.00 **Tea/Coffee and welcome**

State of the Sector

10.10 **Biomethane as part of the 2020 targets**

John Hayes MP - Minister of State for Transport - Invited

10.30 **Biomethane in reformed RHI**

TBC - BEIS

10.45 **UK Biomethane Market Review**

John Baldwin - CNG Services

11.00 **AD Market Data and Plant Health**

Lucy Hopwood - NNFC

11.15 **Tea/Coffee break and networking**

Waste Biomethane Projects

12.00 **New Projects in 2016-17**

TBC - Severn Trent Water

12.20 **Dagenham**

TBC - Refood

12.40 **Avonmouth**

TBC - Geneco

12.50 **Newton Aycliffe**

Antony Warren - Emerald Biogas

13.00 **Lunch/Networking**

Feedstocks - Old and New

- Accessing the biomethane potential of straw
- Feedstock handling & dosing for optimum biogas yield
- The challenges of waste food feedstocks, sourcing, collecting & utilising
- Hydrodynamic cavitation disintegration of feedstock and digestate

14.30 **Future Biogas Economiser**

Philipp Lukas - Future Biogas

14.45 **Cavitation**

Owen Yeatman - CaviMax

15.00 **Thermal Hydrolysis**

Keith Panter - Cambi

15.15 **Autoclave**

TBC - Aerothermal

15.30 **Tea/Coffee Break**

Green Gas Certificates

15.45 **Enabling Cross-Border Biomethane Trades**

Attila Kuvacs - European Renewable Gas Registry

15.55 **Market update from the REAL Green Gas Certificate Scheme**

TBC - REAL

16.10 **Leyland Bio-CNG Project**

Philip Fjeld - CNG Fuels

16.25 **Supply of Biomethane with Green Gas Certificates**

Tim Davis - Barrow Shipping

16.40 **Close**

Correct as at
27.03.17
Subject to change

To book your place visit:

www.r-e-a.net/events/rea-event-uk-biomethane-day-2017

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2018



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GGCS member - £125+VAT
Non-members - £175+VAT

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Chair: Gaynor Hartnell - REA

10.00 Tea/Coffee and Welcome

State of the Sector

10.10 UK Biomethane Market Review

John Baldwin - CNG Services

10.30 Heat Beyond 2021-Does Biomethane Have a Role to Play?

Oliver Quast - BEIS

10.50 Policy Update from DfT on Biomethane

Aaron Berry - Department for Transport

11.10 Tea/Coffee Break and Networking

European Market Development

11.40 Cush RNG Injection Project

James Browne - Gas Networks Ireland

12.00 Deploying Biomethane in the Transport Sector & Emission Testing Results

David Hurren - Air Liquide

12.20 Biomethane Market in Denmark

Asger Myken - Orsted

12.40 Lunch/Networking

Green Gases

14.10 Innovation in the Sector & Overview of Projects Injecting H₂ Into the Network

Navdeep Singh Kahlon - Cadent Gas

14.25 Power to Gas

A Commercial Perspective Michael Chesshire - Lutra Ltd
Distillery CO₂ Simon Griew - Simon Griew Consulting

14.45 Bio-SNG-The Swindon Project

Andy Cornell - Advanced Plasma Power

15.00 The AERIOGEN Process

Sandra Esteves - Wales Centre of Excellence for Anaerobic Digestion

15.15 Tea/Coffee Break

Green Gas Certificates & Innovation

15.30 Project CLoCC: Connecting to the NTS

Claire Gumbley - National Grid

15.45 Market Update from the REAL Green Gas Certification Scheme

Jesse Scharf - GGCS

16.00 Biomethane Production Review

Tim Davis - Barrow Shipping

16.15 Close

Correct as at 18.04.18- Subject to change

To book your place visit:

www.r-e-a.net/events/rea-event-uk-biomethane-day-2018

2019

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To book your place visit:

<https://www.r-e-a.net/events/rea-event-uk-green-gas-day-2019>

Correct as at 02.05.19- Subject to change



09:30 Tea/Coffee and Registration

10:00 Chair: Gaynor Hartnell - REA - Welcome

10.10 Keynote Speaker - Dr Alan Whitehead
Shadow Energy & Climate Change Minister

Global View on Green Gases

- 10.30 **The state of play of green gas in Europe**
Kiara Zennaro - REA Biogas and EBA
- 10.50 **Green gas initiatives in the Netherlands**
Peter van Elferen - Gasunie Engineering B.V.
- 11.10 **A world that runs entirely on green energy**
Damien Speight - Orsted
- 11.30 **Q&A Session**

11.35 Tea/Coffee Break and Networking

UK Present and Future

- 11.55 **Market update on green gas sector**
John Baldwin - CNG Services Ltd
- 12.15 **The future of bioenergy in the UK**
Adam Brown - Energy Insights Ltd
- 12.35 **Centrica's role in green gas**
Tim Marsters - Centrica Energy Marketing and Trading
- 12.55 **Q&A Session**

13.00 Lunch/Networking

Green Gas for Transport

- 14.00 **An update on biomethane as a transport fuel**
Philip Fjeld - CNG Fuels
- 14.20 **JLP's plans to decarbonise freight fleets**
Justin Laney - John Lewis Partnership, Central Transport
- 14.40 **Emerald Biogas' CBM Filling Station and Warrens Group's plan to fade out diesel fleet**
Martin Flach - Warrens Group
- 15.00 **Distillery project – a journey from fossil gas to biomethane to H2**
David Hurren - Air Liquide
- 15.20 **Q&A Session**

15.25 Tea/Coffee Break

Alternative Green Gases

- 15.40 **Heating options for off-gas grid consumers**
Lucy Hopwood - NNFFC
- 16.00 **Hydrogen projects in the UK**
Martin Shannon - Cadent Gas
- 16.20 **European and global picture on hydrogen and power to gas (hydrogen and methane)**
Graham Cooley - ITM Power
- 16.40 **Q&A Session**

Green Gas Certificates

- 16.45 **Guarantees of Origin for Green Gas – prices, regulation and market developments**
Jesse Scharf - GGCS

17.05 Close

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BARROW GREEN GAS

GreenGas
CERTIFICATION SCHEME

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For Exhibitor/Sponsorship Details Contact:

julie.lazenby@cngservices.co.uk
lauren.hamer@cngservices.co.uk

Invited Exhibitors:

Air Liquide, Honeywell, Orsted, Cadent, Umoe Advanced Composites, BOC, Clarke Energy, Ceres Energy, LiveLab, Wartsila Puregas Solutions, Pentair Haffmans, Orbital, Calor, Flogas, Aerzen Machines, Bright Biomethane, Hexagon Purus GmbH, Hitachi Zosen Inova Biomethan GMBH, CPL Activated Carbons, Smartestenergy, QED Environmental Systems, Greenlane Biogas, Elaflex Ltd, Barrow Green Gas, Renewable Energy Association, CNG Fuels, CNG Services, Green Gas Certification Scheme

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To book your place visit:

<https://www.r-e-a.net/events>
and select UK Green Gas Day

Correct as at 04.05.2020 - Subject to change

09:30 Tea/Coffee and Registration

10:00 Welcome

10.10 Keynote Speaker -TBC



Green Gases & Net Zero

10.30 The role of green gases in achieving Net Zero, & the policies to support them
Relevant official - BEIS Heat Team - TBC

10.50 The Gas Networks' contribution to decarbonisation
Matt Hindle - Energy Networks Association - TBC

11.10 Q&A Session

11.15 Tea/Coffee Break and Networking

Global Views on Green Gases & Market Development

Chair: William Mezzullo - Foresight Group

11.40 The EU Biomethane market (with emphasis on Italy)
Lorenzo Maggioni - Italian Biogas Association - TBC

12.00 Severn Trent's Biomethane strategy
Simon Farris - Severn Trent

12.20 Trading Biomethane within the EU - latest developments
Jesse Scharf - Green Gas Certification Scheme

12.40 Q&A Session

12.45 Lunch/Networking

The Role of Green Gases to Decarbonise Transport

13.45 How to roll out gas dispensing infrastructure
Rob Wood - Gasrec - TBC

14.05 The transition pathway from renewable methane to a Net Zero emission future
David Jones - Cadent Gas - TBC

14.25 The challenges of de-fossilising the 44 tonne truck
Neville Jackson - Non Executive Director at Advanced Propulsion Centre UK

14.45 Decarbonising Shipping, the policy drivers & options available
Hugo Wilson - Affinity - TBC

15.05 Q&A Session

15.10 Tea/Coffee Break and Networking

Case Studies

15.30 Biomethane as a tractor fuel - towards zero-carbon farming
David Redman - New Holland

15.45 Are you a Gas Network? Do you operate a Pipeline?
HSE (Gas, Pipelines & Renewables)

16.05 The case for biomethanation
Representative from Southampton University (Invited)

16.20 BEnergy South2East & the Humber Energy Strategy
Simon Burgess - Siemens

16.35 Q&A Session

16.40 Close

OUR AGENDA

10.00 - 10.15

Welcome and introduction

William Mezzullo - Foresight Group and REA Biogas Forum Chair

10.15 - 10.30

Policies to support biomethane and green gases

Jane Lumb - BEIS

10.30 - 10.45

Delivering net zero: the role of the gas networks

Matt Hindle - Energy Networks Association

10:55 - 11:00

Q&A

11.00 - 11:15

Severn Trent's biomethane strategy

Simon Farris - Severn Trent

11.15 - 11:30

Trading biomethane within the EU - the latest developments

Jesse Scharf - Green Gas Certification Scheme

11:30 - 11:45

Q&A

11:45 - 12:05

The transition pathway from renewable methane to a net zero emission future

Richard Riley - Element Energy and David Jones - Cadent Gas

12:05 - 12:20

The growing market for freight

David Hurren - Air Liquide

12:20 - 12:35

Q&A & close



OUR SPEAKERS



William Mezzullo, Head of JLEN AD, Foresight Group and REA Biogas Chair

William is the Chair of the Biogas Group and Head of AD for an Environmental Listed Fund called JLEN, managed by the Foresight Group. Prior to working in fund management, William was Head of Projects at Future Biogas from 2010 to 2016. William is passionate about renewable energy, having undertaken a PhD at the University of Bath in 2009 in bioenergy, prior to his move into industry.



Jane Lumb, Head of Non-Domestic RHI and Biomethane, BEIS

Jane leads the NDRHI and biomethane team at BEIS. This involves developing and delivering policies to reform the NDRHI, including recent announcements on Covid-mitigation measures alongside closure of the scheme; and developing the new replacement scheme for biomethane – the Green Gas Support Scheme. Before taking on this role, Jane has worked on a wide range of energy and sustainability issues across central and local government ranging from running operational energy and waste management teams, low carbon heat and renewable energy policies, to green financing and barriers to business engagement in carbon reduction initiatives.



Matt Hindle, Head of Gas, Energy Networks Association

Matt Hindle works with ENA's members on issues affecting the gas transmission and distribution networks, including the future role for gas in heat and transport and energy policy more widely. Prior to joining ENA, he spent six years working on green gas, energy policy and recycling issues for the Anaerobic Digestion and Biogas Association, ultimately as Head of Policy.



Simon Farris, Bioresources Strategy Manager, Severn Trent

Simon worked for Severn Trent in a variety of operational roles before joining the Renewable Energy team in 2011. Over the past 9 years he has developed a number of projects including the UK's first Commercial scale Sewage to Biomethane plant at Minworth, Birmingham. He is now the Strategy & Commercial lead for Bioresources, focused on the sustainable treatment of sewage sludge to produce energy and high quality biosolids. Severn Trent operates 27 Sewage AD sites, all of which operate CHP with 2 having additional Biomethane plants in operation and a further 2 Biomethane plants scheduled for completion in 2021.



Jesse Scharf, Green Gas Certification Scheme, Scheme Manager

Jesse manages the Green Gas Certification Scheme (GGCS), a biomethane registry generating Renewable Gas Guarantees of Origin (RGGOs) of for over 60 biomethane plants, representing over 3 TWh of annual capacity. Sales of RGGOs to consumers were over 2.5TWh in 2019 representing millions of pounds of value for biomethane plants and an increasing important income stream. The GGCS sits on the board of the European Renewable Gas Registry (ERGaR), working towards a multilateral trading system for RGGOs between European countries.



Richard Riley, Principal Consultant, Element Energy

Richard has worked in the transport team at Element Energy since completing his PhD in transport decarbonisation at the University of Leeds in 2016. Richard now leads Element Energy's work on the decarbonisation of heavy duty vehicles with extensive expertise in freight movements, freight decarbonisation options and decarbonisation pathways. Richard has also led a number of studies looking at pathways to meet net-zero targets, which has given him a detailed knowledge of the technical and behavioural changes needed over the next 30 years.



David Jones, Sustainable Transport Manager, Cadent Gas

David Jones is the Sustainable Transport Manager at Cadent Gas, formerly National Grid Gas Distribution, with responsibility for developing the company's low-carbon transport infrastructure strategy, an important part of the company's broader Future Role of Gas strategy. David is a Chartered Engineer with over 30 years of experience in the energy sector, specialising in climate change strategy, carbon management, and sustainable gas technologies including alternative fuelled vehicles. David has held senior positions in Shell, BG Group, Centrica and British Gas. More recently, David has created a portfolio of innovative projects which consider, amongst other important topics, optimisation of future network delivery of hydrogen for transport in the North West, and investigation of the impact of network purity on future hydrogen transport applications.



David Hurren, UK CEO, Air Liquide Biogas Solutions Europe

David Hurren graduated from Imperial College in Chemical Engineering. For most of his career he has worked in the Industrial Gas industry, apart from a 4 year spell in water & wastewater treatment. For the past 22 years he has worked for what is now Air Liquide UK, setting up and leading Air Liquide's Biomethane operations in the UK over the past 5 years. Air Liquide cover all parts of the Biomethane supply chain and in the UK, they have Gas to Grid Facilities, a virtual pipeline supplying Industrial heat users from the NTS, supply most of the Biomethane buses in the UK, and have a rapidly growing network of HGV refuelling facilities.

OUR AGENDA 2021

09:30 - 10:00 - Refreshments and Registration

10:00 - 10:10 - Welcome and introductions - Dr Nina Skorupska CBE, Chief Executive REA

Green Gases and Net Zero

10:10 - 10:25 - Chaired by William Mezzullo - Senior Business Development Manager, Energy Marketing & Trading, Centrica and REA Green Gas Forum Chair

10:25 - 10:50 - Government policy to support biomethane and clean hydrogen
William Lord, Green Gas Support Scheme Policy Implementation Lead, BEIS and Corinne Ribbons
Policy Delivery Manager Net Zero Hydrogen Fund, BEIS - Including 5 minute Q&A

10:50 - 11:05 - Centrica's activities on Hydrogen
Lotte Holmberg Rasmussen, R&D Project Manager, Centrica

11:05 - 11:20 - RTFO and Government transport decarbonisation plan: The role of Green Gases
Dr Nick Matthews, Principal Sustainability Specialist - Low Carbon Fuels, DfT

11:20 - 11:35 - Power and carbon prices: after a year of instability, what does the future hold?
Liam Langshaw, Senior Consultant, Power & Renewables at Baringa Partners

11:35 - 11:50 - Progress made by the gas networks to deliver the world's first zero carbon gas grid. Challenges and next steps to 2025.
Chris Train, ENA Green Gas Champion

11:50 - 12:05 - Biogas: the next generation
Philipp Lukas, CEO, Future Biogas

12:05 - 12:20 - Q&A

12:20 - 13:35 - Lunch/ Networking

The transition to Net Zero transport: The role of Green Gases

13:35 - 13:50 - Chaired by Ian Waller - Founding Partner at In Perpetuum Partners LLP and REA Renewable Transport Fuels Chair

13:50 - 14:05 - RNG: A fast growing market in the US
Patrick Serfass, Executive Director, American Biogas Council

14:05 - 14:20 - Opportunities for Green Gases in road transport
Gloria Esposito, Head of Sustainability, Zemo Partnership

14:20 - 14:35 - Rapid expansions in Green Gases for transport and customer experience
Benjamin Fillion, Head of Sales, Air Liquide Biogas Solutions Europe

14:35 - 14:50 - Choices available to decarbonise logistics
Paul Preston, Commercial Manager, Reynold Logistics

14:50 - 15:05 - Q&A

15:05 - 15:30 - Tea/Coffee break and Networking

Decarbonise rural and off the grid communities

15:30 - 15:45 - Chaired by Kiara Zennaro, Head of Heat - Green Gas Lead, REA

15:45 - 16:00 - Rural decarbonisation and off-grid Biomethane
Richard Gueterbock, Director, Food Chains, and Angela Bywater, Environmental Biotechnology Network Co-Manager, University of Southampton

16:00 - 16:15 - Biomethane as a tractor fuel – towards Net Zero farming
David Redman, Tractor Product Specialist, New Holland

16:15 - 16:30 - Biogas network to central upgrading and injection to Transmission Grid with CCS capture
John Baldwin, Managing Director, CNG Services Ltd

16:30 - 16:45 - The role of biopropane to decarbonise the off-grid market
Duncan Carter, Corporate Affairs Manager, Calor Gas

16:45 - 16:55 - Q&A

16:55 - 17:05 - Closing remarks from the REA Green Gas Chair - William Mezzullo

17.05 Close

OUR AGENDA 2022

09:00- 09:30 - Refreshments and Registration

09:30- 09:40 - Welcome and introductions- Dr Nina Skorupska CBE, REA's CEO

The role of green gas in delivering energy security and net zero

09:40- 09:45- Chaired by William Mezzullo- REA Green Gas and Hydrogen Chair, Centrica

09:45- 10:00- Can green gas help make Europe independent from fossil fuels?

Harmen Dekker, European Biogas Association

10:00- 10:15- Biomethane in the new energy reality following the Russian invasion of Ukraine

John Baldwin, CNG Services

10:15- 10:30- Government policy to support green gases (biomethane and hydrogen)

James Davis and George Lowe, Ella Deleersnyder and Cameron Davies, BEIS

10:30-10:40- Q & A

10:40- 11:00- Morning Tea/ Coffee break & Networking

Maximising revenues through energy markets, innovation, and extending the operating life of AD plants

11:00- 11:05- Chaired by David Hurren- Air Liquide

11:05- 11:20- Power, gas and carbon prices: what does the present and the future hold for green gas assets?

Liam Langshaw, Baringa Partners

11:20- 11:35- The market today for gas wholesales, RGGOs, and RTFCs and balance between market exposure and revenue security

Katrina Hillary, GEMS UK (Engie)

11:35- 11:50- Making green gas grid connections possible: the case for reverse compression

Alison Cartwright, CNG Services Ltd

11:50- 12:05- The value for money case for converting existing biogas CHP plants to biomethane

Lucy Hopwood, NNFCC

12:05- 12:15- Q&A

12:15- 13:25- Lunch/Networking

Creating value for green CO₂ in the short and medium term

13:25- 13:30- Chaired by Philipp Lukas, Future Biogas

13:30- 13:45- Green CO₂: Food grade and industrial grade, opportunities and challenges ahead

Christopher Carson, Biocarbonics

13:45- 14:00- Corporates and the voluntary carbon offset market – an AD opportunity?

Philipp Lukas, Future Biogas

14:00- 14:10- Q&A

14:10- 14:35 - Afternoon Tea/Coffee break and Networking

Decarbonising farming with rural biomethane

14:35- 14:40 - Chaired by Kiara Zennaro, REA

14:40- 14 :55- Vision of a sustainable model for biomethane in agriculture

Mariam Moatassim, GRDF

14:55- 15:10- Lowering the carbon footprint of agriculture- the Grosvenor project

Charlie Steer, Grosvenor

15:10- 15:25- Connecting AD farms off the gas grid: virtual pipelines

Daniel Lambert, Acorn Bioenergy

15:25- 15:45- Off-Grid Biomethane- Rural Production and Supply

Richard Gueterbock, Food Chains and Angie Bywater, University of Southampton

15:45- 15:55 - Q&A

15:55- 16:10- Closing remarks from the REA Green Gas Chair- William Mezzullo, Centrica

16:10 Close