

(CERTIFICATION SCHEME)

Biomethane Day 2017







# **Green@as**

CERTIFICATION SCHEME



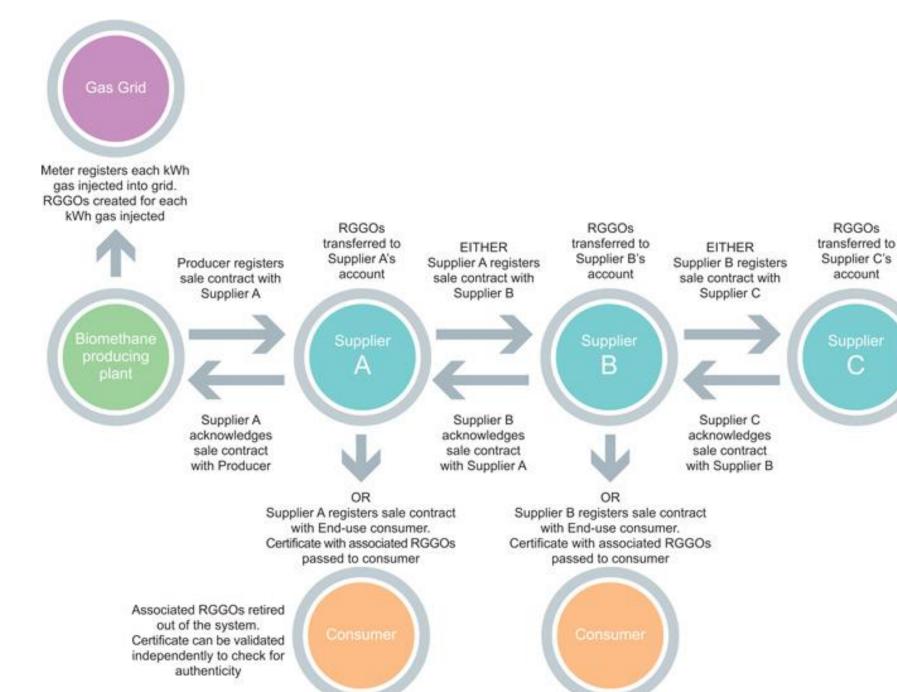














Example Certificate - Does not contain any valid Renewable Gas Guarantees of Origin

Date Created: 03/01/2017 17:15:20

Date Printed: 16/03/2017 10:19:10

Certificate issued to: Acme Enterprises Ltd

Renewable Gas
Guarantees of Origin:

G0001BF00000001E0211 to
G0001BF000000002E0211

Injection Date: May 2016

Technology/Feedstock: Biogas from food waste

Injection Location: England

Amount: 10395371 kWh

Certificate Pin Number: XXXXX

Green Gas Producer: Example Biomethane Plant Ltd

3 Cherry Lane, Yorkshire, YO34 7HJ

Green Gas Supplier: Example Gas Supplier Ltd

24 Amesbury Avenue, Swindon, SN1 5TF

The lifecycle emissions associated with the production of this biomethane is no more than 125.28 g CO2 equivalent per kWh. For 10395371 kWh this is no more than 1,302.33 tonnes of CO2. For further information on GHG emissions including factors for reporting to the GHG Protocol please visit the website here - www.greengas.org.uk/certificates/emissions-reporting

#### **About this Certificate**

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- Date of creation
- Customer name
- Range of RGGOs
- Injection Date
- Technology/feedstock
- Country of injection
- Total amount kWh
- Pin Code
- Producer
- Supplier

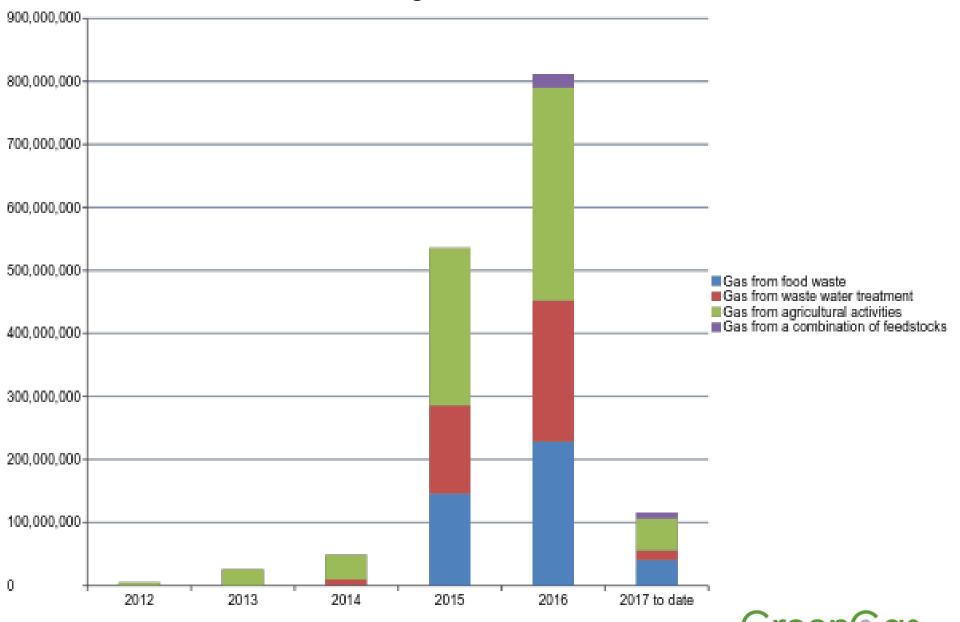


### Current Scheme Status

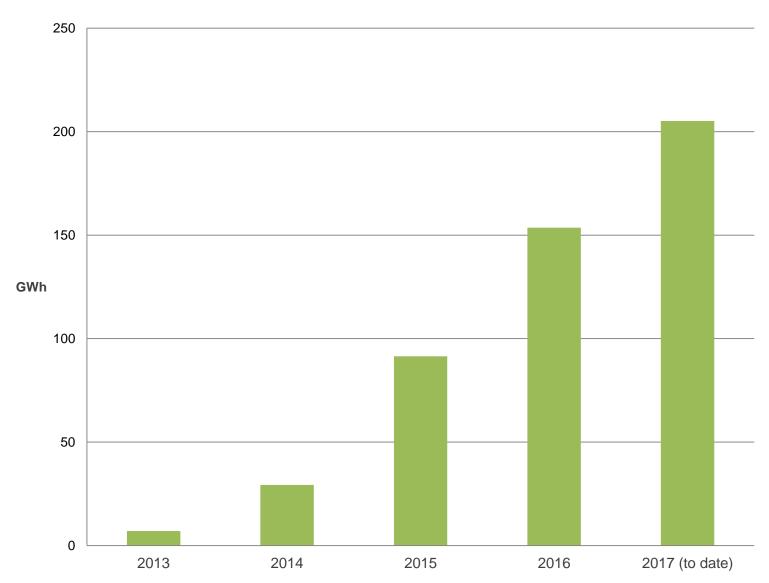
- 33 Producers registered
- Capacity of producers 1.7 TWh per annum
- 28 Suppliers registered
- 1.5 TWh of RGGOs created
- 445 GWh (0.445 TWh) RGGOs sold



### Biomethane Registered and RGGOs Created

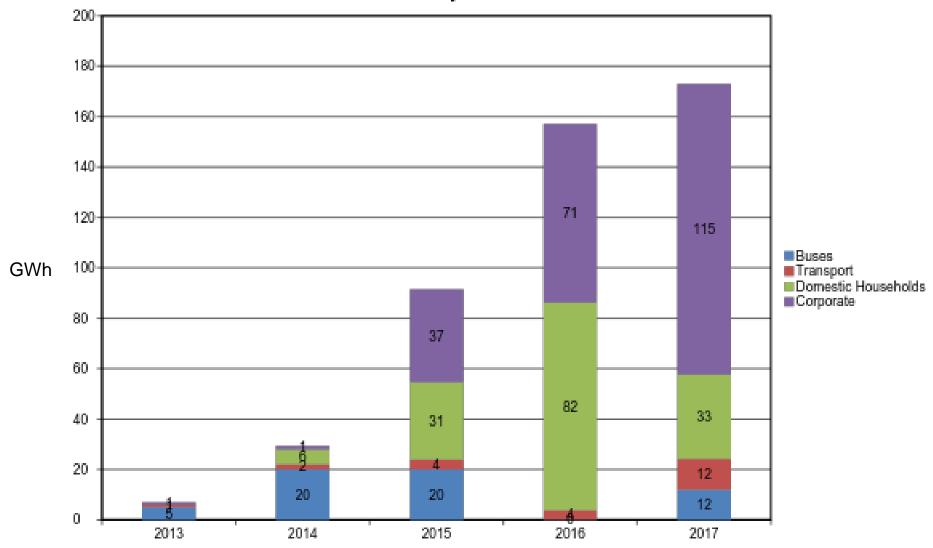


#### **Volume of RGGO sold to End-Use Consumers**





#### RGGO sold by market sector



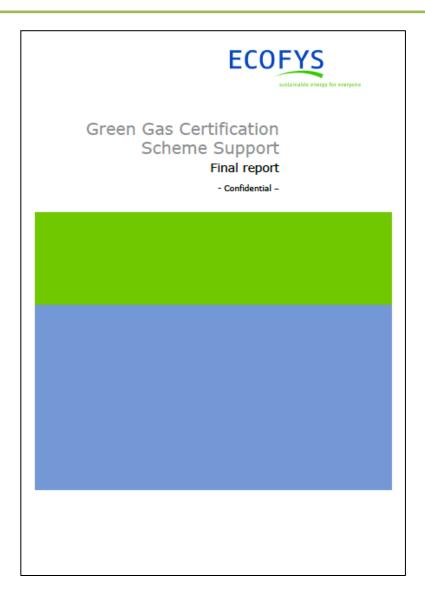


### Progress since last BMD

- CO<sub>2</sub> emission figure
- RHI participants must meet a lifecycle GHG emissions target of 34.8g CO2 eq/MJ of heat.
- Since all biomethane on the GGCS has received the RHI then it is possible to say that all units of gas has emitted no more than 34.8g CO2 eq/MJ and we now include this on our Certificates



## GGCS study by Ecofys commissioned





### Progress since last BMD

- corporate reporting
- Our work with GHG Protocol is starting to pay off
- CDP Technical Note recognises role for Green Gas Certificates



## **Looking Forward**

- Further growth in the corporate market as knowledge of use of Certificates in emission reporting grows – Unilever, Sainsburys, John Lewis, Kingspan to be joined by many more. 250+ companies reporting to the CDP.
- Further growth in demand from domestic suppliers – 100,000+ households to be supplied with Green Gas?



## **Looking Forward**

- Upcoming changes to our feedstock classification.
- Moving from labelling RGGOs by plant type to labelling by feedstock-to-gas apportionment.
- One plant may now generate, for example, X number of RGGOs from waste and X number of RGGOs from product/co-product.
- Many further RGGOs categories possible giving the flexibly to adapt scheme for the RTFO



## Looking Forward

- Use of RGGOs/Green Gas Certificates in transport sector
  - RTFO guidance has identified that "a supplier may wish to use a third party gas certificate scheme to provide evidence of the mass balance"
  - Transport Scotland has reconfirmed role of RGGO in BSOG
  - Use of Certificates to evidence green value to customers in the transport sector e.g. Calor

