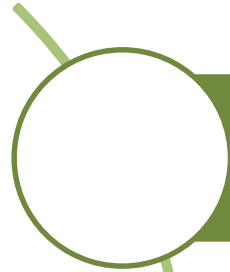


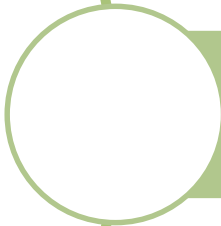
Green Gas Certification Scheme

Jesse Scharf
Scheme Manager

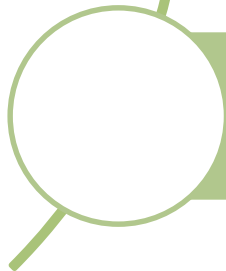




What's the GGCS?



What's happening in the
RGGO/Certificate market?



What's coming up?

Green Gas Registry - Generating Renewable Gas Guarantees of Origin

G001MP00000001E0516	G001MP00000001E0816	G001MP00000001E1116
G001MP00000002E0516	G001MP00000002E0816	G001MP00000002E1116
G001MP00000003E0516	G001MP00000003E0816	G001MP00000003E1116
G001MP00000004E0516	G001MP00000004E0816	G001MP00000004E1116
G001MP00000005E0516	G001MP00000005E0816	G001MP00000005E1116
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G001MP00000008E0516	G001MP00000008E0816	G001MP00000008E1116
G001MP00000009E0516	G001MP00000009E0816	G001MP00000009E1116
G001MP00000010E0516	G001MP00000010E0816	G001MP00000010E1116
G001MP00000011E0516	G001MP00000011E0816	G001MP00000011E1116
G001MP00000012E0516	G001MP00000012E0816	G001MP00000012E1116
G001MP00000013E0516	G001MP00000013E0816	G001MP00000013E1116

Generating Renewable Gas Guarantees of Origin

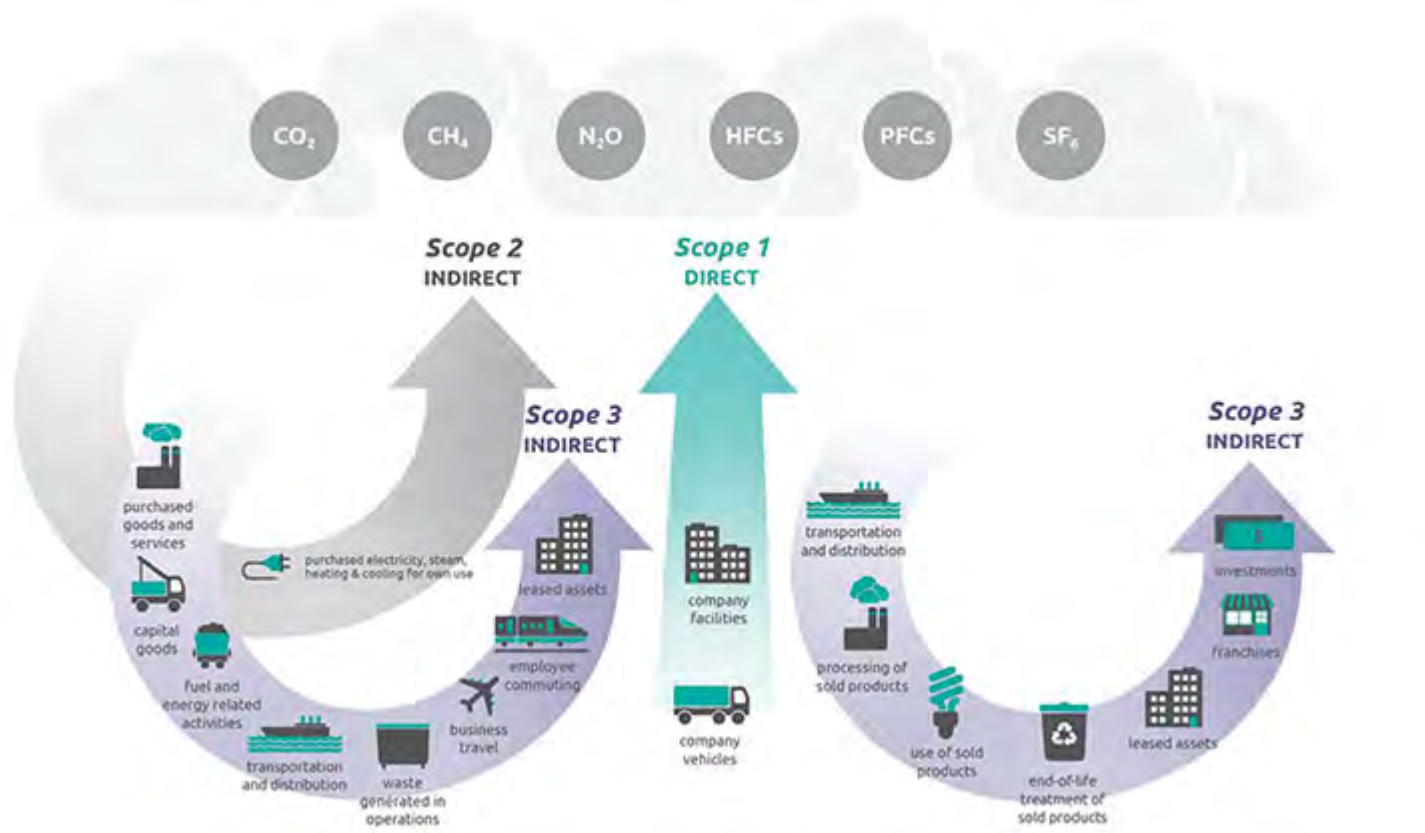
A screenshot of the GreenGas website's login page. The page has a green header with the GreenGas logo and navigation links. The main content area is titled "Log in to your GGCS Account" and contains a login form with fields for "Account Type" (radio buttons for "Producer of green gas" and "Supplier/trader of green gas"), "Email Address" (containing "jesse"), and "Password" (containing "*****"). There is a green "Log in" button and a link for "Forgotten your password?". To the right, there is a "Not a member yet?" section with text explaining the registration process and a contact email: info@greengas.org.uk.

- No maintenance!
- No opex!
- 15 minutes a quarter of your time!
- Instant payback period!

Large Corporates



GHG Protocol



Source –
GHG Protocol

<https://www.greengas.org.uk/certificates/emissions-reporting>

Domestic Green Gas Tariffs



Est. 400,000 UK households on green gas

- Bulb
- Ecotricity
- Good Energy
- Green Energy UK
- Tonik
- Solarplicity
- E.ON
- Npower
- ENGIE
- Bristol Energy

Example Certificate

Certificate lists retired RGGOs and identifies gas consumer.

Can be validated online with pin number.

Example Certificate – Does not contain valid renewable gas guarantees of origin

Date Created: 05/03/2017 17:05:20
Date Printed: 06/06/2017 10:45:13

Certificate issued to: **Acme Warehouse Ltd**
Renewable Gas Guarantees of Origin: **G001MP00000001E0516 to G001MP10395371E0516**
Injection Date: Quarter ending in May 2016
Technology/Feedstock: Biomethane from product/co-products
Injection Location: England
Amount: 10395371 kWh
Certificate Pin Number: kehif975d
Green Gas Producer: **Yorkshire Biomethane Ltd**
3 Cherry Lane, York, YO34 7HL
Green Gas Supplier: **Clean and Green Energy Ltd**
25 Amesbury Way, Swindon, SN1 5TF

Example Certificate – Does not contain valid renewable gas guarantees of origin

The lifecycle emissions associated with the production of this biomethane is no more than 125.28 g CO2 equivalent per kWh. For X kWh this is no more than XXXX 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. Renewable Gas Guarantees of Origin listed on this certificate have been generated in respect of gas that has received a production subsidy from the UK Government's Renewable Heat Incentive (RHI).

About this Certificate

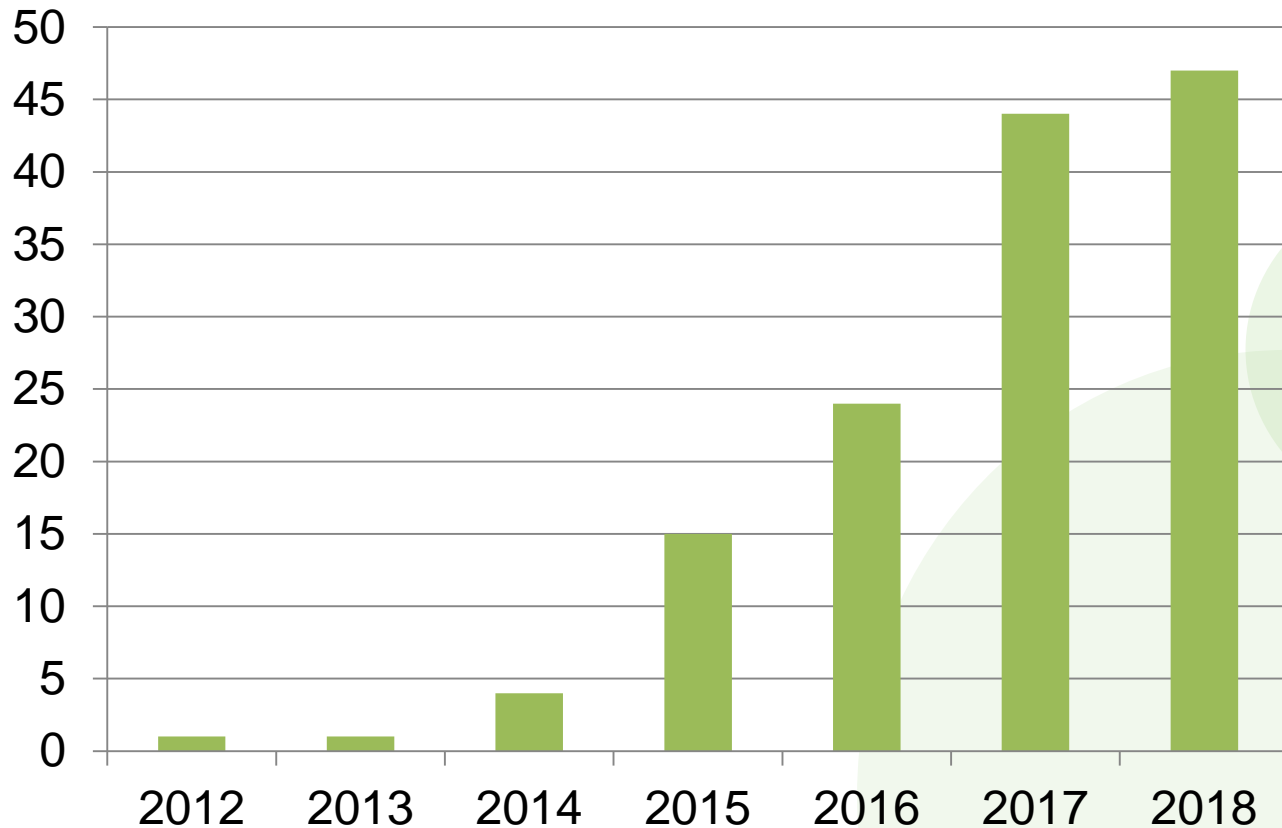
Renewable Energy Assurance Ltd 2011. 'Green Gas' and the Green Gas logo are trademarks of Renewable Energy Assurance Ltd. All rights reserved. Only certificates produced by the Renewable Energy Assurance Ltd using its proprietary systems are valid. You must not copy for an improper purpose, falsify, counterfeit or tamper with this certificate. It may be an offence to do so, or to knowingly provide a certificate which has been interfered with. Renewable Gas Guarantees of Origin listed on this certificate have been issued to the party named above and are not transferable or for resale. For further information on this certificate, please visit www.greengas.org.uk/certificate.

GGCS Membership

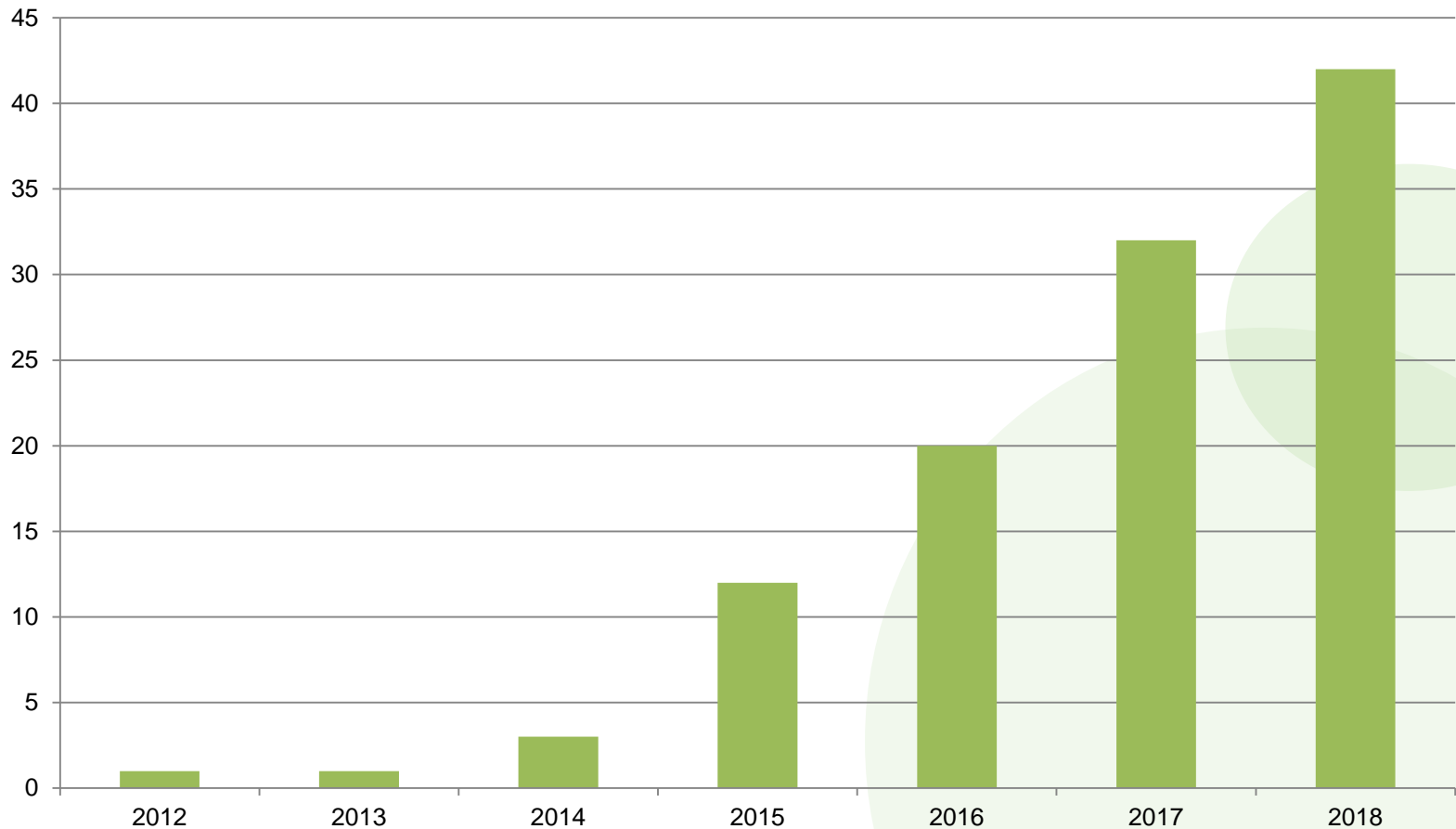


- 47 producers
 - 14 waste-only
 - 4 product only
 - 29 co-digesting different combinations of product, residue and waste
- 2.5 TWh annual capacity
- Expecting another 10 to 15 members by end of 2018

Number of GGCS producer members



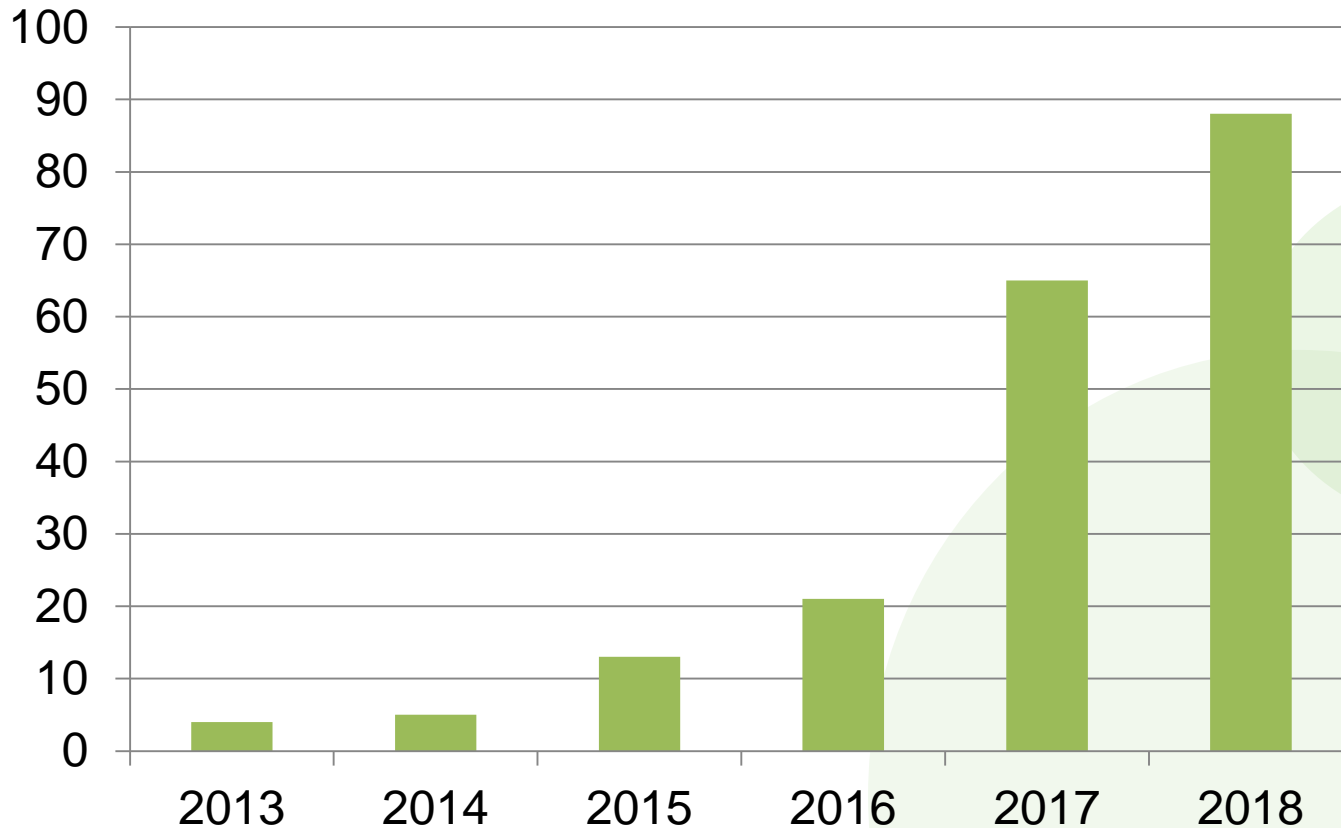
Number of suppliers members



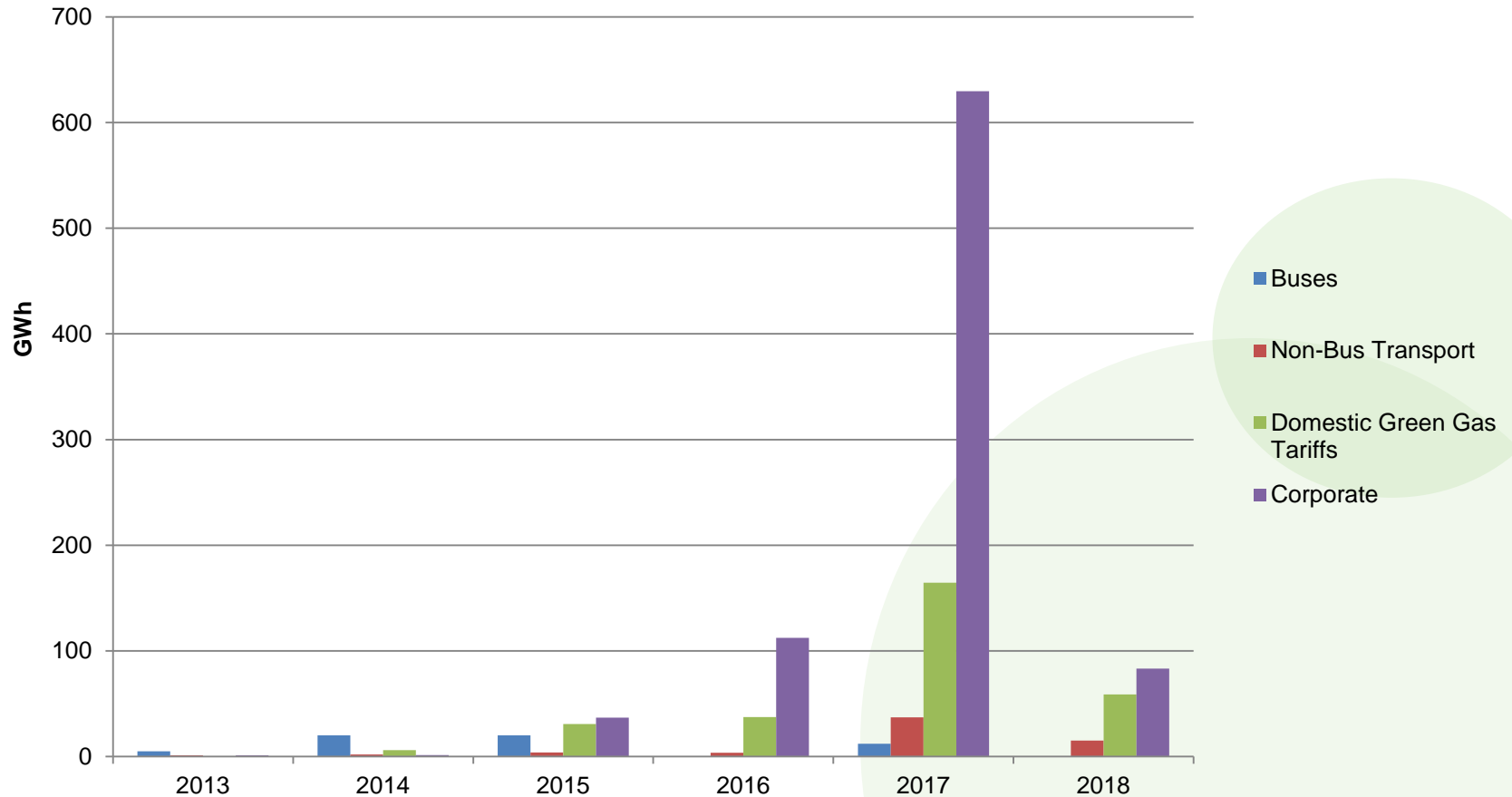
Number of consumers (cumulative)

Company buying green gas = 1 consumer

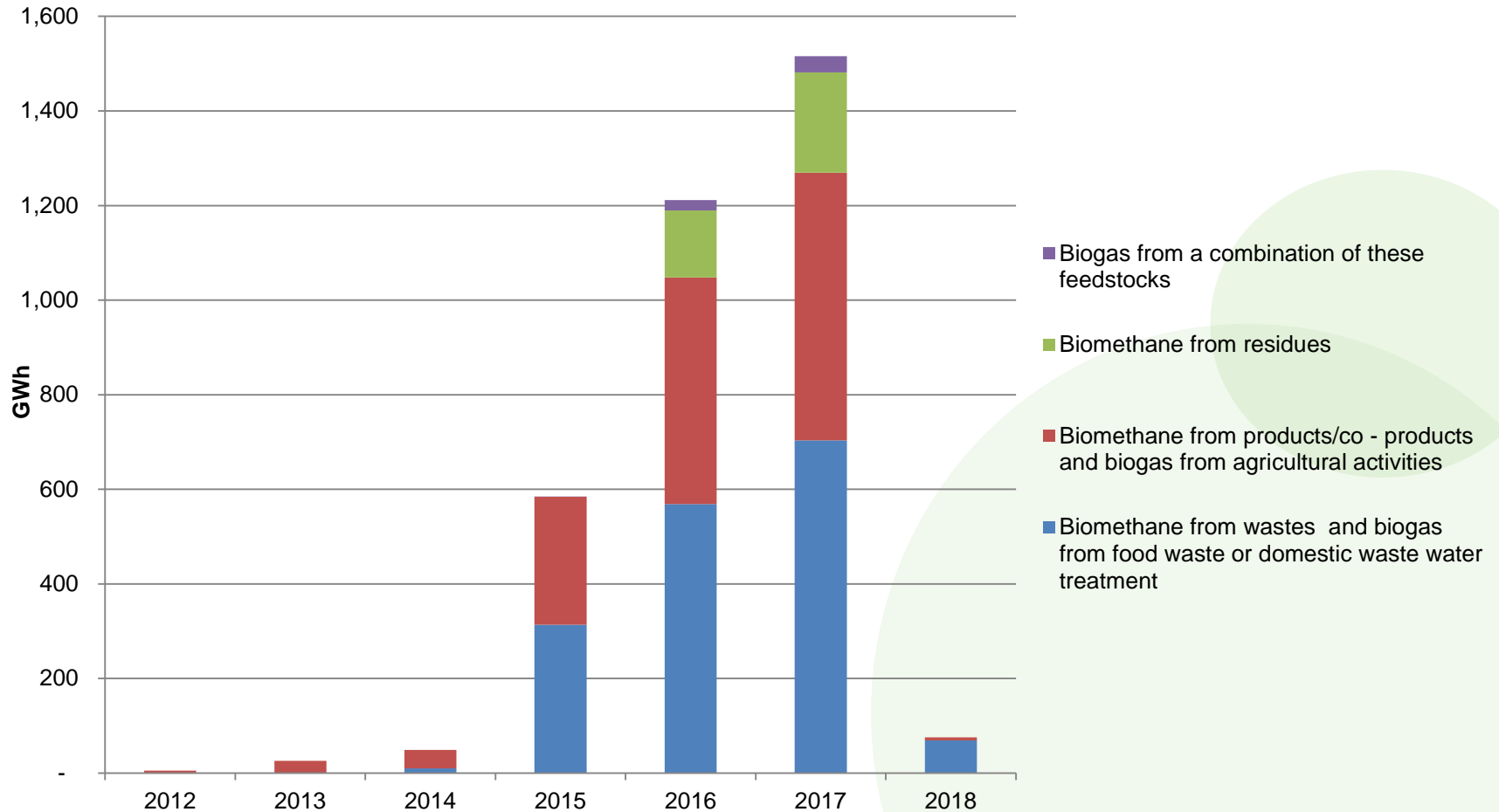
Supplier with households on a green gas tariff = 1 consumer



Consumers by sector



RGGO creation by year and by technology/feedstock identifier



Where next?

- Supporting long term gas purchase agreements
- Multilateral international transfers
- Statutory uses?
 - EU ETS
 - Proving “green” for exemption from domestic price cap
 - Proving mass balance and C&S data for RTFC claims
- New types of green gas

Supporting Corporate Investment and Long Term GPAs?



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MICHELLE DAVIS AND COLIN SMITH | APRIL 12, 2018



Technology | Renewable energy

Why Apple and Google are moving into solar energy

Silicon Valley's biggest companies are investing in renewable energy in a serious way - a sign, perhaps, of rapid changes in the energy market.

By Chris Baraniuk
14 October 2016

Most people think of Apple as a company that makes phones, computers and smart watches - not an energy provider. But in August all of that changed when the firm was given permission to sell energy from a Californian solar farm that it acquired last year.

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International Transfers

- Possible to retire RGGOs directly from a GGCS account to non-UK gas consumers
- Several transfers of “live” RGGOs have now taken place into the DENA registry, to be traded onwards / issued to German consumers.



- IT system is being built
- Target Launch Jan 2019

“Statutory” Uses – EU ETS

- Confirmed use of Certificates to evidence green gas use and reduce need to purchase EU ETS Allowances in Germany and Denmark.
- Environment Agency have said that same is possible in UK but is currently untested
- Allowance price now above €10/tonne CO₂

“Statutory” Uses – Domestic Tariffs

The screenshot shows the Parliament website page for the Domestic Gas and Electricity (Tariff Cap) Bill 2017-19. The page includes a navigation menu, a search bar, and a sidebar with links to various sections. The main content area displays the bill's title, type (Government Bill), and sponsor (Greg Clark). A progress diagram shows the bill's journey through the House of Commons and House of Lords, with stages marked by letters C, R, and A. Below the diagram, there are sections for 'Last events' and 'Next event'.

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You are here: Parliament home page > Parliamentary business > Bills and legislation > Bills before Parliament 2017-19 > Public Bills > Domestic Gas and Electricity (Tariff Cap) Bill 2017-19

Domestic Gas and Electricity (Tariff Cap) Bill 2017-19

Type of Bill: Government Bill
Sponsor: Greg Clark
Department for Business, Energy and Industrial Strategy

Progress of the Bill

Bill started in the House of Commons

House of Commons: 1 (First reading), 2 (Second reading), C (Committee stage), R (Report stage), 3 (Third reading)

House of Lords: 1 (First reading), 2 (Second reading), C (Committee stage), R (Report stage), 3 (Third reading)

Consideration of amendments

Royal Assent

Last events

- C Committee Debates: compilation pdf of sittings so far: House of Commons 15 March, 2018 | 15.03.2018
- C Committee Debate: 3rd sitting: House of Commons 15 March, 2018 (1) (2) | 15.03.2018

Next event

- R Report stage: House of Commons | Date to be announced

Read debates on all stages of the Domestic Gas and Electricity (Tariff Cap) Bill 2017-19

- Assuming it passes in current form Ofgem will be consulting on what constitutes a green gas tariff.
- RGGOs issued by GGCS to assume the same status as REGO issued by Ofgem in Fuel Mix Disclosure process?

“Statutory” Uses – Claiming RTFCs

- IS System is ready to generate RGGOs for “non-RHI” gas
- Certificate listing non- RHI RGGOs may be
 - used as evidence for RTFC claim
 - presented to vehicle owners as evidence of green gas use
- We believe that Ofgem will assess <100% RHI claims on a case-by-case basis.
- Test cases are expected in the near future
- ***We are running a survey which will be important evidence in persuading the DfT to support biomethane in transport.***
- **www.surveymonkey.co.uk/r/biomethane4transport**

New Types of Green Gas

THE IRISH NEWS
16 April, 2018

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New renewable LPG aims to dramatically cut north's carbon footprint



Officially launching Calor BioLPG in Northern Ireland is Stephen Laughlin, Calor area sales representative and Mary Coughlin, BioLPG product manager

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State Bank of India spend £225m to broaden its customer reach across UK



- Bio-propane now being produced in Rotterdam and supplied by Calor in RoI and UK
- Bio-SNG from the APP Swindon Plant
- Tests issues of GOs for green hydrogen - www.certifyhy.eu

Annual Report



Now
available on
our [website](#)

Thank you for your time

Jesse Scharf, Scheme Manager

02079 810853

jscharf@greengas.org.uk