

Leading green gas aggregator & shipper

Biogas to Biomethane: The Carbon Trail

> Helen Edwards CEO



What we do

Ceres Energy is the largest aggregator of green gas in the UK.

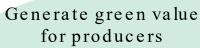


plants across UK



Manage gas entry into grid







Deliver gas to end-users



Flexible gas purchasing



Subsidy scheme support



RGGO and RTFC marketing



Facilitate sales to endusers



Own-site redelivery



Generate RTFCs for producers



Began actively trading in the GB gas market

2008

Became licensed gas shipper in GB

2012

Became first commercial biomethane shipper in GB and began trading in green gas certificate market

2013

Became supplier for first bio-CNG station in GB

2017

ISCC certified for sustainable practices & transparent supply chain management

2017

Facilitated the first sale of GB biomethane to mainland Europe

2021

Became licensed gas shipper in ROI

2023

Became licensed gas shipper in NI



About us





64/144

AD Meter Points in GB



2.1/5.9

TWh expected in 2025



1st

Contracted UK Hydrogen Shipper



 $\frac{2}{3}$

GB Injection Hubs for which we are the dedicated shipper



95%

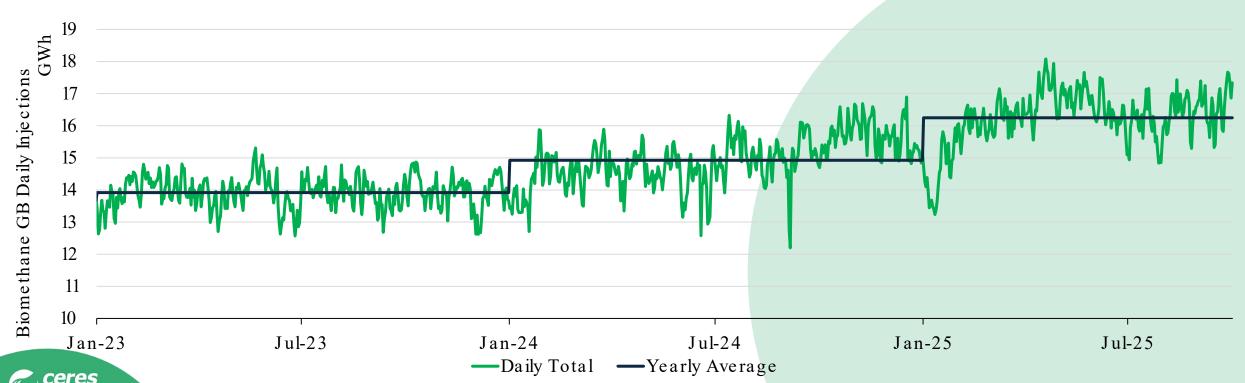
Gas from AD in our Portfolio



Biomethane: Grid injection each year



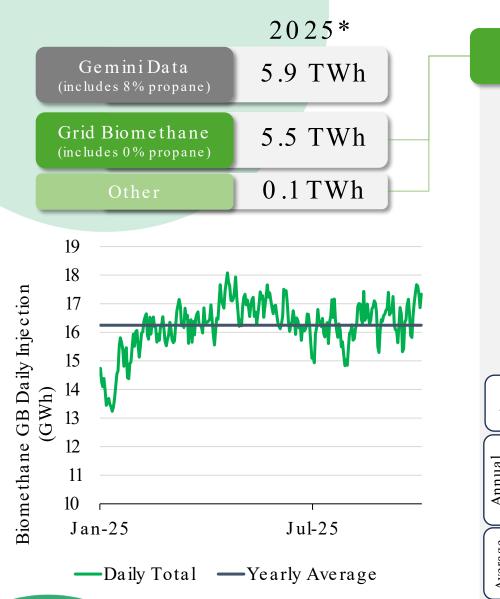
	2023	2024	2025*
Gemini Data (includes 8% propane)	5.1 TWh	5.5 TWh	5.9 TWh
Grid Biomethane (includes 0% propane)	4.7 TWh	5.0 TWh	5.5 TWh
Published Figures	7.5 TWh (Dukes)	7.7 TWh (Dukes) 5.5 TWh (FES)	N/A

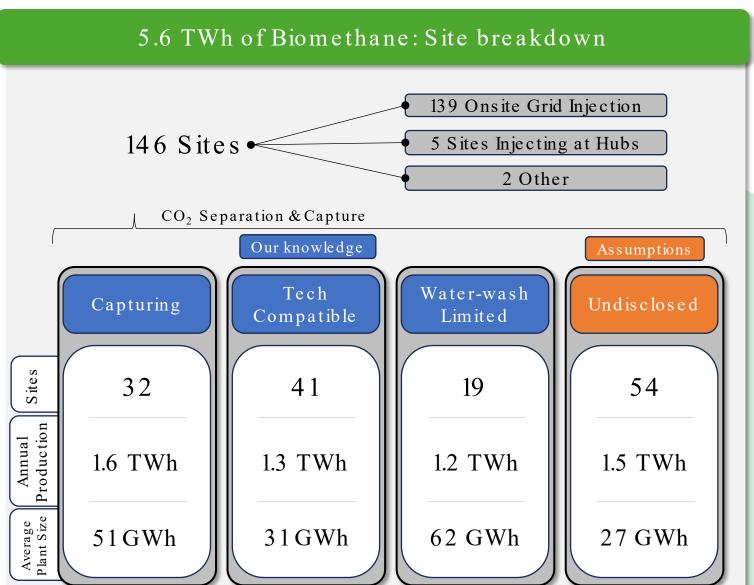




Biomethane: Site breakdown



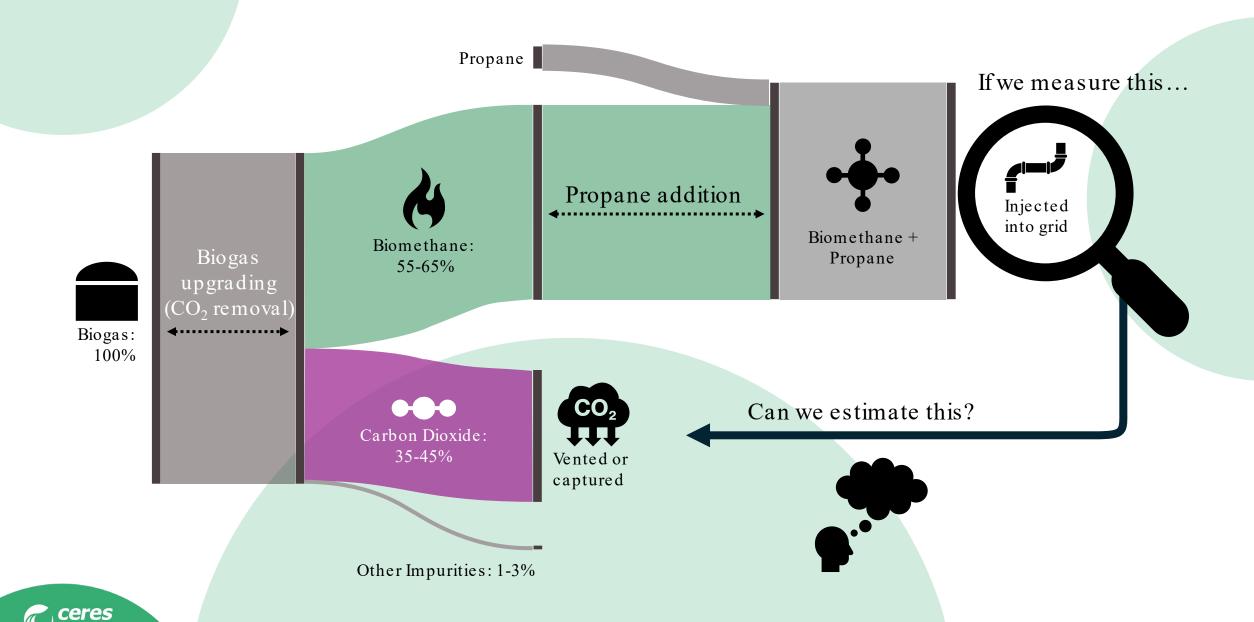






Can we estimate CO₂ Based on Biomethane Injection?





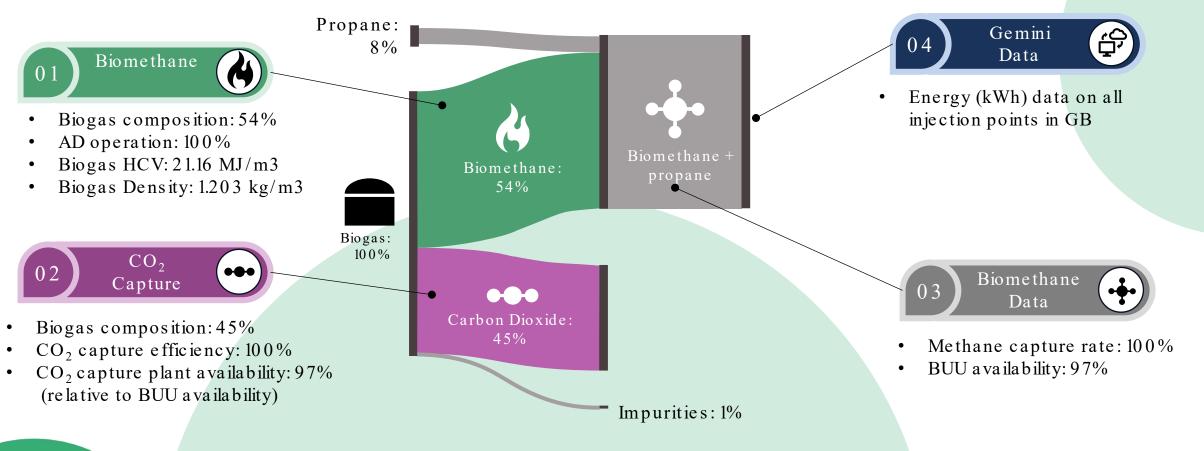
John Baldwin's Rules of Thumb



We assessed a typical AD site and derived a CO₂ capture rule of thumb.

0.138 kgCO₂/kWh of biomethane

Propane exclusive biomethane inj.





Biomethane and CO₂: All sites in analysis



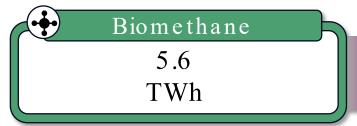
BioCO2 capture if all sites had appropriate technology on site

Site inclusion criteria

Number of sites

All sites

146



CO₂ Production
775,081
tonnes CO₂



At 2024 max capacity (7.7TWh) \rightarrow ~1.06 million tonnes CO₂ Industrial CO₂ use is reported around 600,000 tonnes CO₂



All 146 sites in analysis



10/10/2025

Captured CO₂: Active CO₂ capture sites



BioCO₂ capture is already underway in the UK via adapted separation technology or purpose-built plant designs.

Site inclusion criteria

Number of sites

Capturing

32

Biomethane
1.6
TWh

CO₂ Production

226,768

tonnes CO₂

Of 775,081tCO₂ (29%)



Active CO₂ capture sites



10/10/2025

Potential for CO₂: Appropriate technology to capture CO₂



BioCO₂ capture requires appropriate technology; water-washing separation is ineffective, the below covers sites with alternative technology.

Site inclusion criteria

Number of sites

Tech compatible

Undisclosed sites

41

54

(73%* of 54 site's quantities used)

*73% of disclosed sites had suitable separation technology

Biomethane
2.4
TWh

CO₂ Production

328,620

tonnes CO₂

Of 775,081tCO₂ (42%)



Sites with potential to start capturing CO₂

Tech compatible Undisclosed



10 / 10 / 20 25

BioCO₂: Summary



1 Full Potential

- 146 of 146 sites
- All sites contributing to analysis
- Doesn't consider any financial/technological restrictions at sites

5.6
TWh

CO₂ Production

775,081
tonnes CO₂

2 Currently Active Sites

- 32 of 146 sites
- Includes satellite, onsite injection, and other known sites
- Based on our knowledge of sites already actively capturing CO₂

1.6
TWh

Combined

555,388 tCO₂ (72% of total)

3 Technology Compatible With Capture

- 95 of 146 sites (54 of which undisclosed)
- Includes satellite and onsite injection sites
- Uses confirmed technology where possible
- Where technology is undisclosed, 73% of quantities are used

Biomethane

2.4

TWh

328,620

tonnes CO₂



How do you sell your CO₂?

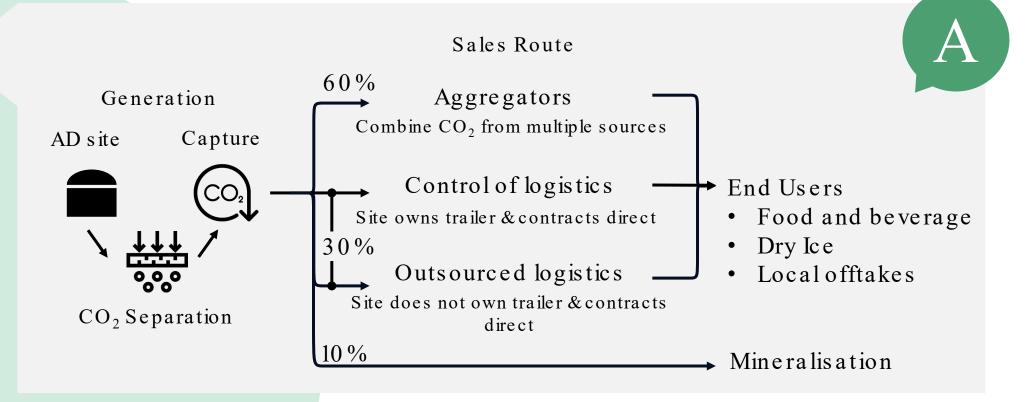




We asked some of our biomethane producers: How do you sell your CO₂?









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