

Biogas – a sustainable fuel for today

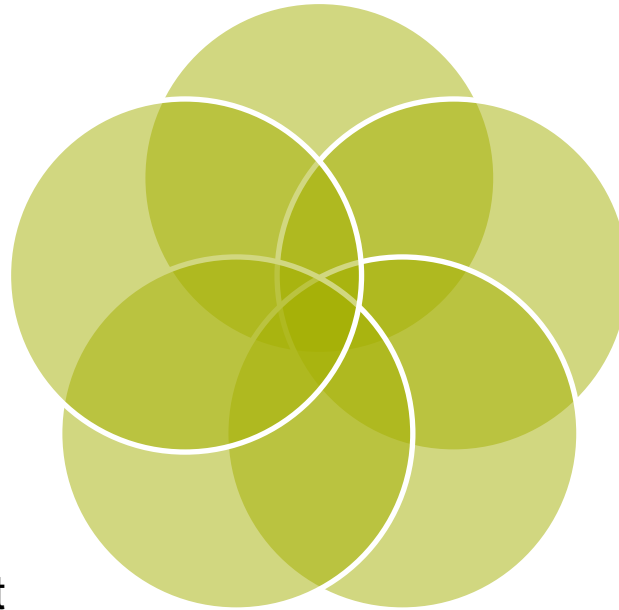
The Biomethane Quality Protocol

ADBA: a brief synopsis

Established
September 2009

Speaking with a
single, united
voice

Working
collaboratively
with government
and related
sectors






Objective to
break down the
barriers and
build a mature,
safe industry

350 members,
representing all
of the key AD
industry sectors

AD Plants in the UK

151 Plants



-  74 use agricultural feedstocks
-  51 use collected waste
-  26 use industrial feedstocks

CHP: 127 plants

Heat only: 20 plants

Biomethane: 4 plants

Biomethane: a growing market

Springhill Farm

- Injecting since mid 2013
- On farm AD plant, farm feedstocks inc crop wastes
- CO₂ captured for greenhouses
- 400m³/hr biomethane

Vulcan Renewables, Doncaster

- Injecting since mid/late 2013
- On farm AD plant, 35,000t crop feedstocks
- 15 local farmers involved
- 350m³ biomethane

Pipeline

- Around 10 more projects in 2014
- 10-20 further in 2015
- Wide range of sites and project types

Supporting development

- RHI review this year
- Work on removing regulatory and technical barriers continuing

The 'Quality Protocol' system

Background

- EU Waste Framework Directive requires definition for the point at which a material has been 'fully recovered' and ceases to be subject to waste controls
- Quality Protocols aim to identify this point and indicate how to comply
- QP-compliant material reverts to waste status if not used in a market

Other QPs

- Anaerobic digestate – works with PAS 110 to provide an end of waste position for biofertilisers from anaerobic digestion

Biomethane QP Development

- Developed by the EA and WRAP
- Involved a range of industry stakeholders including ADBA

Why a QP for biomethane?

The QP states it has four main purposes:

- To clarify the point at which *waste management controls are no longer required*;
- To provide users with confidence that the biomethane they use conforms to an *approved product standard and, if specified, a customer specification*;
- To provide users with confidence that the material is suitable for use in the designated applications; and
- To protect human health and the environment

Without a QP...

- Biomethane from waste feedstocks remains a waste
- Gas grid would need to be regulated by the Environment Agency, and transport users of biomethane would need waste licenses

Biomethane QP: criteria

Inputs

- Not directly regulated by QP, but must comply with other permitting requirements
- Biomethane exclusively from non-waste materials is exempt

General requirements

- Biomethane meets a small number of composition limits set out in the QP
- Records managed to demonstrate compliance

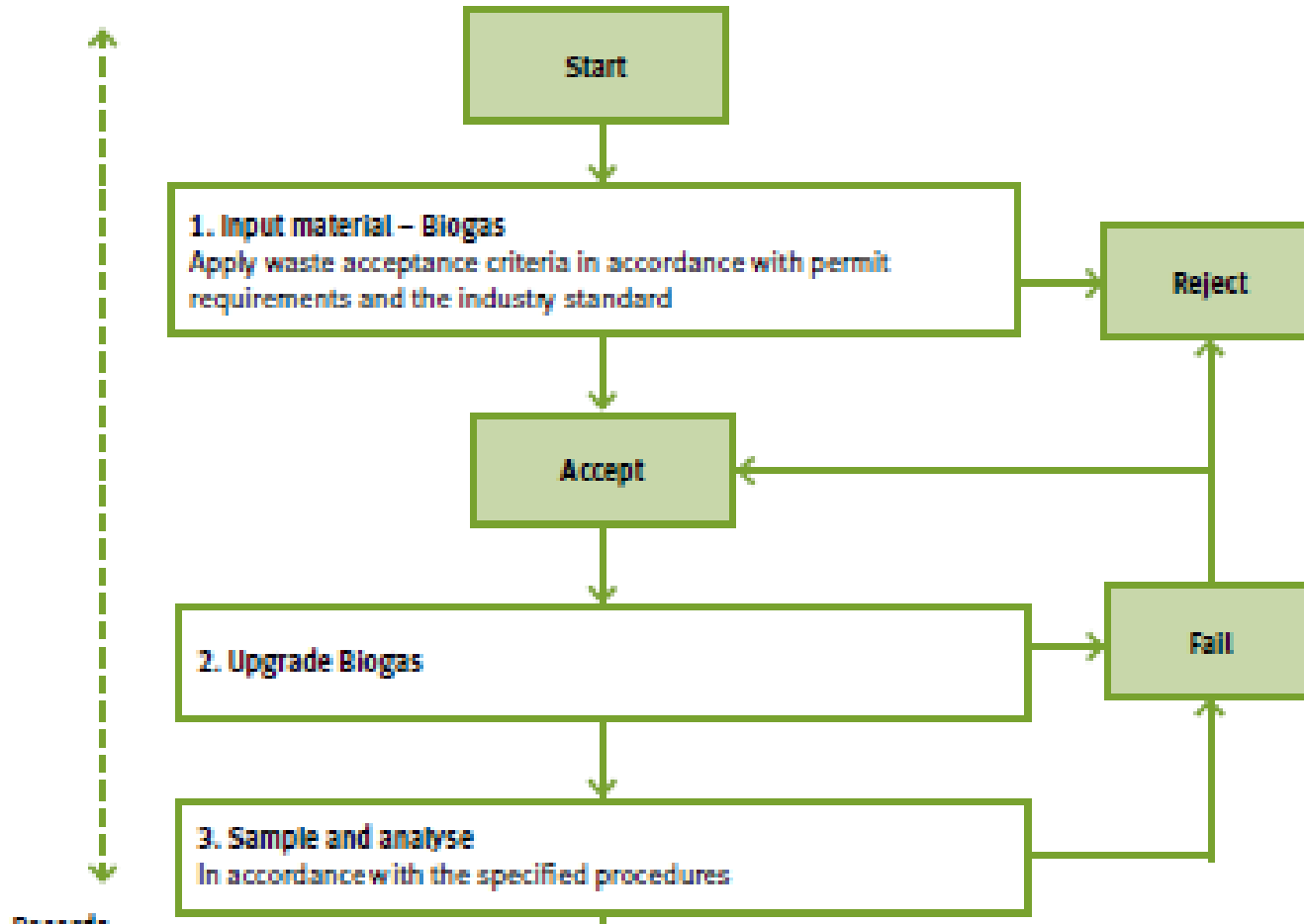
Biomethane to Grid

- Supplied to national or local transmission or local distribution network
- Meets Gas Safety (Management) Regulations, or class exemption
- Is supplied under a Network Entry Agreement with a transporter

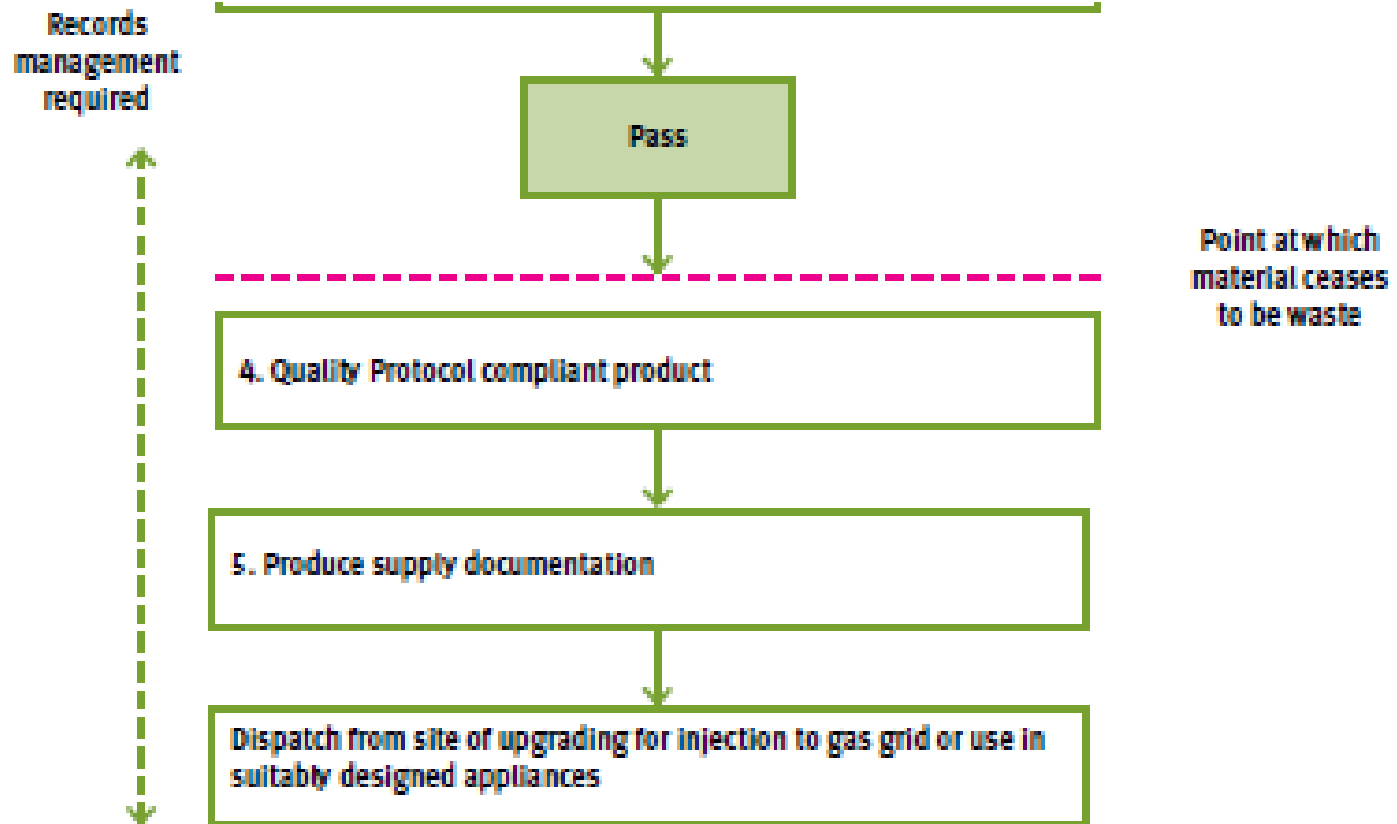
Use in 'appliances' (e.g. Transport)

- Appliance must be 'suitably designed and operated for natural gas'
- Complies with the requirements of a manufacturer's warranty if required
- Evidence of operational requirements and instructions is provided

Biomethane QP: compliance (1)



Biomethane QP: compliance (2)



Accessing the QP



RESOURCES

AD Strategy and Action Plan

ADBA briefings

Beginners' guides

Best practice and guidance

Case studies

Government

Presentations

Reports

Working group

ADBA responses ▶

Consultation documents ▶

Energy Bill ▶

Regulations and standards

- [PAS110 Digestate specification – WRAP](#)
- [Anaerobic Digestion Quality Protocol \(ADQP\) – EA and WRAP](#)
- [EA Position Statement on Glycerol](#)
- [Biomethane Quality Protocol](#)

Find out more...

Join ADBA:

- Regular up to date information on the UK market, regulations and incentives
- Access to AD experts and the best technology providers from the AD industry
- Access to the most innovative and forward thinking waste management professionals in the UK
- Advice, information and support from ADBA's policy team and working groups



NEC, Birmingham, 2-3 July 2014

270 exhibitors :: 3,000 visitors

free conference :: 22 free seminars

free advice clinics :: awards dinner

 **UK AD & BIOGAS** | 2-3 JULY 2014
BIRMINGHAM NEC