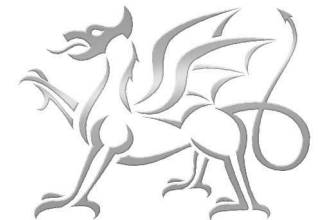


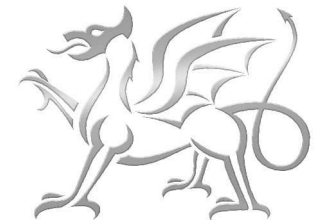
Anaerobic Digestion Systems & ABP Regulations



Llywodraeth Cynulliad Cymru
Welsh Assembly Government

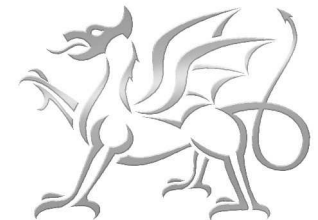
Animal By-Products Regulations

- ABPR 1774/2002 applied to all Member States from 1/5/2003. Provides the framework for all animal by-product handling and incorporates SRM controls
- The Animal By-Products (Wales) Regulations 2006 is the enforcing legislation in Wales. They contain the national composting and biogas standards as well as powers for inspectors, approval controls and appeals procedures



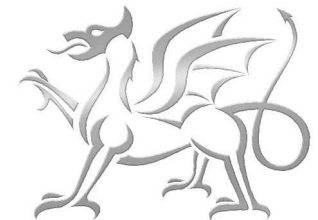
Review of ABP Regulations

- Compromise text now agreed 1069/2009 will cif March 2011
- Key WAG concerns over containment and polychaetes addressed
- Current stage detailed drafting of the implementation rules (Annexes)
- No significant changes to AD controls



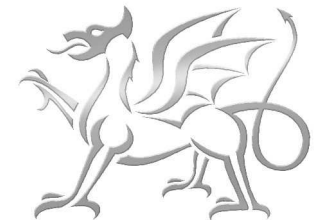
WAG Responsibilities

- Policy development
- Advice on implementation
- Enforcement (where necessary)



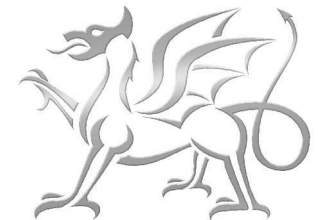
Animal Health Responsibilities

- AH are responsible for approving ABP premises
- Carry out inspections of all approved premises, frequency depends on risk assessed basis
- Advisory role in requirements under the ABP Regulations
- Reporting non-compliance from site visits



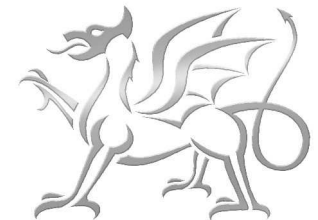
Local Authority Responsibilities

- LA's enforce the ABP Regulations
- Carry out risk assessed compliance visits



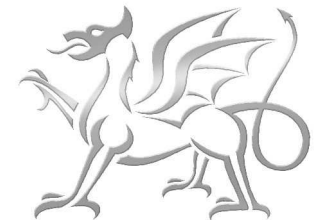
Approved Premises

- Intermediate Plants, Laboratories, Storage Plants, Collection Centres, Incineration Plants, Compost Plants, Processing Plants, AD Plants, Oleochemical Plants, Technical Plants, Petfood Plants, Landfill



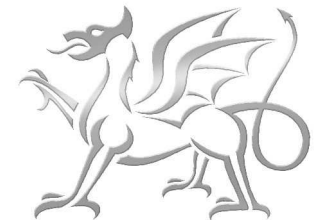
Composting & AD Plants Definitions

- Composting Plant – Biological degradation of ABP under aerobic conditions
- AD Plant – Biological degradation of ABP under anaerobic conditions – for production and collection of biogas



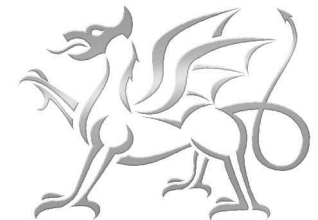
Categories of waste (descending order of risk)

- Animal By-Products
- Catering waste
- Meat excluded catering waste
- Green waste



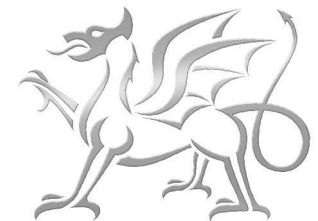
Composting / AD Catering Waste

- Processed at full community regulation standard or;
- Processed in equivalent effect system (Article 6(2)(g) regarding reduction of pathogens (national standard) or
- Processed by 208/2006 – end product standards



Treatment Standards

- EU Regulation states treatment standard is 70°C for 1 hour max particle size 12mm
- MS can set National Standards (catering waste only)
- The minimum time/temperature and maximum particle size requirements for the various systems are:

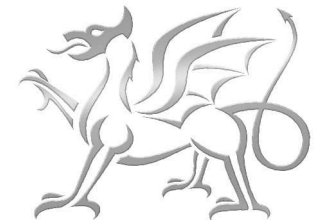


UK National Standards

System	Minimum temp	Minimum time	Max particle size
Composting (closed reactor)	60°C	2 Days	40cm
Biogas	57°C	5 Hours	5 cm
Composting (closed reactor) or biogas	70°C	1 Hour	6 cm
Composting (housed windrow)	60°C	8 Days (turned at least 3 times @ 2 day intervals)	40cm

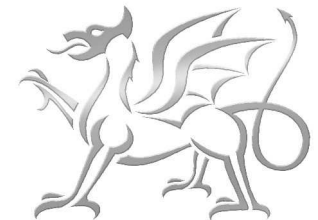
AD Plant Conditions

- Reception area, Clean area, Vehicle cleaning area
- Adequate separation and effluent control
- Reception area cleanable and lockable
- Treat immediately / Without undue delay
- Operation to prevent contamination
- Vehicle cleaning (wheels if CW)



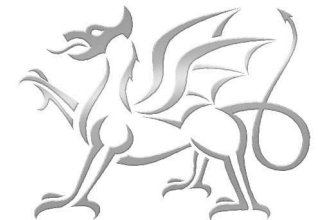
AD Plant Conditions cont'd

- AD plants – pasteurisation unit which cannot be bypassed
- Temp/time monitoring, continuous recording, safety system
- Preventative measures against birds, rodents, insects, vermin – documented pest control
- Documented cleaning procedures
- Hygiene inspections documented
- Equipment monitoring & calibration
- HACCP
- Total physical separation of plant and livestock



AD Plants – Sampling & Testing

- ABP – Enterobacteriaceae & Salmonella
- CW – Salmonella
- Record keeping Pre-Validation
- Validation (typically 3 months)
- Require 4 consecutive batches / weeks clear before positive release
- Thereafter release each batch as results clear
- Clear testing for minimum 3 months

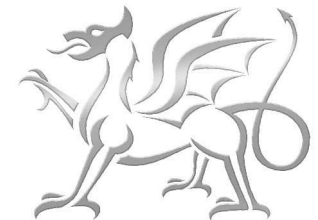


AD digestate – End Product Control

- Restrictions on use when spreading onto land:-

Spread to non-pasture land = land not grazed by animals/cropped for feedstuffs post application for :

- If spread to pasture land – no grazing for:
 - 2 months for pigs
 - 3 weeks for other farmed animals

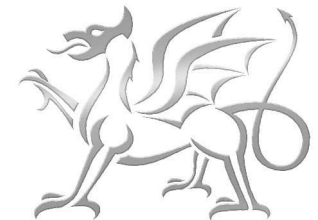


Diolch / Thank You

QUESTIONS?

Huw Jones

Office of the Chief Veterinary Officer
Welsh Assembly Government



Llywodraeth Cynulliad Cymru
Welsh Assembly Government