

Anaerobic Digestion Strategy and Action Plan

Annual Report on Progress 2011/12

Supporting Document 1: Update on Progress on Detailed Actions

Workarea: Improving our understanding of the AD landscape					
Number	Task/Issue No	Action to address issue	Who	When	Update on Progress
1	KUL 1.1	Agree and publish on the existing Anaerobic Digestion (AD) portal a robust baseline that accurately describes the status of the AD industry.	NNFCC and WRAP with ADBA, Water UK, REA	September 2011	ACTION COMPLETE. The report, " Anaerobic digestion infrastructure in the UK: September 2011 ", (available on the AD portal) provides a baseline for AD infrastructure in the UK. NNFCC and WRAP will continue to report on the status of the industry through the AD portal.
2	KUL 1.2	Continue to update the AD landscape information that is accessible via the AD portal. In the short term (1yr-18 months) continue to monitor planned developments for AD and provide accessible data via periodic regional summaries. In the longer term work with ADBA and REA to develop an industry led mechanism e.g. the ADBA best practice scheme, to provide data to monitor the development of the AD industry.	NNFCC and WRAP , increasingly supported and then delivered via industry and trade body data collection	Ongoing	There are currently 78 operational facilities. A further 100+ plants have received planning permission. WRAP and NNFCC continue to work together to keep the AD database up-to-date.
3	KUL 1.3	Add to the information currently accessed via the AD portal by collating robust data on the associated benefits of AD e.g. number of jobs created, renewable energy generated, Green House Gas (GHG) reduction, etc. Make this information available via the portal.	WRAP with DECC/Defra (with support from NNFCC, ADBA, REA and SLR)	April 2012	ACTION COMPLETE The AD database has been extended to include details of the benefits where this information is available for AD sites. Collection of data is ongoing with information added to the AD portal as and when it becomes available.
4	KUL 1.4	Agree and publish via the portal the collated matrix of ongoing work on AD in the UK.	Defra , NNFCC to publish via the AD portal	September 2011	ACTION COMPLETE The " Matrix of research and development work " (available on the AD portal) will continue to be updated as information on new research and development work becomes available.

5	KUL 2	Collate and make available data and information sources on feedstocks for AD using the AD portal.	WRAP with support from ADBA/REA and government	April 2012	IN PROGRESS Action expected to be completed by November 2012 with the provision of useful links to information sources on the AD portal. This will enable operators and suppliers to make informed decisions on feedstock availability.
6	KUL 3	Build on the work that has already been undertaken and published by WRAP on commercial food waste collection. Taking this forwards, provide a tool for both businesses and collectors to determine the costs involved in commercial collection schemes and provide successful demonstration projects to provide further evidence for those considering implementing commercial collection. Understand what actions are required and by whom and what the priorities should be to ensure that commercial collections become widespread. Links to action 38 which will evaluate the role of purpose grown crops for energy.	WRAP , ESA, CIWM, ADBA, REA Biogas (with support from industry including FDF, PDM, BHA, ORA)	December 2011	ACTION COMPLETE WRAP has launched a fund for demonstration projects aiming to enable food waste to be collected more efficiently from businesses, thereby increasing take up of collections and feedstocks for AD.
7	KUL 4	Undertake an economic study to evaluate the different possible business models for AD. Undertake a full and detailed review of the supply chain options for AD, applying the existing models to determine the likely impact of achieving a range of scenarios.	WRAP , DECC and NNFCC, Trade associations	April 2012	IN PROGRESS The scope of this action is currently being reviewed. A gap analysis will be undertaken and is expected to conclude by December 2012.

Workarea: Building UK Skills

Number	Task/Issue No	Action to address Issue	Who	When	Update on Progress
8	KUS 1.1	Agree and finalise the training provision matrix created by the working group members (include as an appendix) and maintain it as a live document published via the NNFCC AD portal as appropriate training and skills development courses become available. Links to these will be created.	CIWM , ADBA, EU skills, NNFCC, NFU	September 2011	ACTION COMPLETE The " AD training and skills matrix " has been published via the AD portal. The matrix will continue to be updated as information on new appropriate training and skills development courses becomes available.
9	KUS 1.2	Develop National Occupational Standards (NOS) to cover the AD process in more detail. Current NOS cover the management of the process inputs/outputs only and not the actual AD process - new standards will be based on Operating Process Plant already in use in the water Industry.	EU Skills to lead if demand is quantified from industry. To be developed during 2011-12 with employers (other relevant bodies to assist where appropriate with aggregating demand e.g. CIWM, WAMITAB, ADBA)	March 2012	IN PROGRESS EU Skills successfully bid for UKCES funding. Work to deliver this action has commenced and is expected to conclude by October 2012.

10	KUS 1.3	Collate data from other workstreams to assess potential demand for skilled personnel (builders, operators, planners, regulators etc). Use this data to understand where the training and standards gaps are and the size of the potential market for training. Ensure that this data is disseminated so that new providers may enter the market, and develop bespoke training packages if required. This is a project that would require funding to carry out and would include as outcomes an LMI (Labour Market Investigation) and an OFM (Occupational Function Map) to be developed by the AD industry.	EU Skills , SSC Network, ADBA, CIWM	December 2011	IN PROGRESS Delivery of this action was dependent on the (now confirmed) funding for EU Skills (Linked to action 9). This action is partially being taken forward in conjunction with action 9 with the development of an Occupational Functional Map for the AD industry as part of the work on the National Occupational Standards.
11	KUS 1.4	Investigate if there is a need, and if so develop qualifications (in addition to the technical competence qualifications) for the operation of the AD Process using the National Occupational Standards.	Awarding Organisations (e.g. WAMITAB – accreditation of qualifications will be subject to ability to demonstrate demand).	2011/12 - after NOS have been developed	IN PROGRESS Delivery of this action was dependent on the (now confirmed) funding for EU Skills (Linked to action 9). This action is now scheduled for completion in March 2013.
12	KUS 1.5	Trade associations to work with their members to identify training needs and then to work with training providers to develop training courses (links to the matrix above).	ADBA to co-ordinate via existing work programme, CIWM, WRAP and other training providers, REA, ESA, Water UK, AFOR, EU skills (N.B. actual provision will be subject to demand).	Some courses currently being developed, others will follow subject to demand.	ONGOING Training courses continue to be developed subject to needs (e.g. WRAP course on "How to market, distribute and utilise anaerobic digestate in agriculture", May 2012)
13	KUS 1.6	Identify if there are any specific training/skills requirements regarding utilisation of gas/power.	EU Skills , in consultation with the gas and power sectors.	2011/12 – may be done as part of development of NOS	ACTION COMPLETE No specific skills/ training requirements have been identified following consultation with employers within the Gas/ Power industry. This action will be considered further as part of the development of the AD National Occupational Standards.
14	KUS 2.1	Publish factsheets explaining Operator Competence requirement for permitted facilities, contextualised specific to AD. Use AD Portal.	NNFCC , CIWM, WAMITAB, EU Skills, EA	September 2011	ACTION COMPLETE Relevant information is available via the AD portal in the Operator Competence Section of the AD Portal.

15	KUS 2.2	Produce information sheet outlining key Health and Safety (H&S) regulations relevant to AD and specific training required (check list) and identify a mechanism (repository) for making this info sheet available along with sign posting to existing training and training providers – liaise with NNfCC to use the AD Portal.	ADBA , NFU, WRAP, HSE, CIWM, EA, NNfCC, REA	September 2011	IN PROGRESS An information sheet outlining key Health and Safety (H&S) regulations and a checklist relevant to AD specific training (“competency skills matrix”) have been published on the ADBA website . A mechanism for making this information available along with signposting to existing trainings and training providers has been identified by adding to the matrix. Work is currently under way and scheduled to conclude by December 2012.
16	KUS 2.3	Identify and promote tangible benefits of a trained and competent workforce and then communicate via AD industry and AD Portal. To include case studies. Link to other work streams e.g. Regulation and Finance. Follow example of a competency accord which has been developed by the energy industry or the following developed by the water industry - national water hygiene competent operator and drainage schemes. Also Renewable UK and Wind and Marine Energy Competency Accord signed by Wind employers.	EU Skills in consultation with Waste Industry Skills Group, Waste Industry Sills Initiative, SSC Network, ADBA, REA, NFU, CIWM etc	December 2011	ACTION COMPLETE A recent study carried out on behalf of the National Apprenticeship Service looked at the value of apprenticeships to employers and showed that training delivers a number of benefits to employers, including quickly recouping the costs of training upon completion of the Apprenticeships. Further information is available on the EU Skills website . Further case studies will be developed as and when required. Information on relevant initiatives such as the employer-led Talent Bank is also available on the EU skills website.
17	KUS 2.4	Scope potential for a framework where demonstration / accreditation of training and competence is key to acquiring financial investment.	ADBA safety and training working group	In progress	ONGOING Progress so far includes - the production of due diligence templates that include a ‘running and managing the plant’ section; the production of a ‘competency and skills matrix’ that shows where different skill levels are needed across a plant; and best practice development. Information is available on the ADBA website .

18	KUS 3	Build on existing projects (e.g. The RESCO project in the west midlands where manufacturers are being encouraged to convert their existing skills to make products for AD plants). Promote this work and identify replicability across the UK manufacturing sector.	ADBA	September 2011	ACTION COMPLETE The RESCO model has been widely publicised at ADBA's industry events, including UK AD & Biogas 2011 and the ADBA National Conference in December 2011. RESCO and RESCO events have also been featured on the ADBA website.
Workarea: Building safe and secure markets for Digestate					
Number	Task/Issue No	Action to address Issue	Who	When	Update on Progress
19	KUD 1.1	Collate and publish experience of digestate enhancement and the development of novel digestate products.	WRAP , IEA, UKWIR, REA, ADBA Research Institutions	March 2012	IN PROGRESS Work has now concluded on the project to review enhancement techniques and novel digestates products. A final report, along with selected case studies, will be published on the WRAP website later in the summer.
20	KUD 1.2	Obtain and publish empirical evidence from the UK for benefits of different kinds of digestate in different markets such as landscape and regeneration or horticulture.	WRAP , NNFCC, IEA, UKWIR, BioCompost Alliance, Research Institutions	Ongoing – complete March 2014	IN PROGRESS Actions 20, 22 and 23 are closely related and are therefore being considered together. The aim is to ensure that research is available to the industry and to deliver datasets and experience on how to use different digestates and their various benefits/dis-benefits in a consistent way. To date, monitoring continues on the joint WRAP/Defra agricultural digestate field experiments that were set up in 2010/11 with a view to providing longer term data on soil quality and plant health. 8 field trials which investigate the use of digestate in landscape and regeneration markets were set up in March 2012. WRAP is preparing a tender to obtain empirical evidence in line with Action 20.

21	KUD 2.1	Define different market expectations / requirements for product quality.	WRAP (with input from relevant user groups)	Ongoing – complete March 2012	IN PROGRESS A project to define the quality expectations of different markets for digestate and to provide data on this for use by the AD industry and associated industries/ markets is under way and expected to conclude by the end of August.
22	KUD 2.2	Collate and publicise existing data on digestate characteristics (including benefits and safety) and use.	WRAP , REAL, IEA, NNFCC, BioCompost Alliance, UKWIR, CLA	March 2012	IN PROGRESS Action linked to Actions 20 and 23. WRAP published a report on “Compost and anaerobic digestate quality for Welsh agriculture” in September 2011. The report was commissioned to close gaps in the understanding of compost and digestate quality, to build confidence amongst potential compost and digestate users, and to identify any specific areas where improvements in quality might be considered desirable. Further work on this action is expected to complete in December 2012.
23	KUD 2.3	Obtain field evidence for benefits and safety of digestates in different markets.	WRAP , UKWIR, IEA, BioCompost Alliance, Research Institutions, EA, Defra	Ongoing - complete March 2013	IN PROGRESS Refer to update on action 20.
24	KUD 2.4	Where lacking, collate or procure research to provide data on (e.g.) processing impacts on hazards of known concern to specific market sectors.	WRAP , Defra, Research Institutions	Ongoing – complete March 2014	IN PROGRESS Two field/laboratory research projects are underway and due for completion in October 2012 – 1. A project reviewing the impact of pasteurisation in AD processes on a range of common agricultural pests and diseases; 2. A project sampling a range of organic materials, including digestates, for the presence of <i>Clostridium botulinum</i> . Other work includes literature reviews on the surface residence times of compost and digestates on grassland, and on the impact of small physical contaminants (such as glass, plastic and metal) on soil quality.

25	KUD 2.5	Work with retail and farm assurance sectors to ensure that required tools are in place to allow these sectors to endorse the use of digestates in food production systems and to communicate the benefits of digestates to consumers.	<u>WRAP</u> , FSA, REA, ADBA, AFOR, BRC, IGD	March 2013	IN PROGRESS A matrix for the use of digestate ("Biofertiliser matrix") is currently being developed with input from the Food Standards Agency and a wide range of other food-chain stakeholders.
26	KUD 2.6	Provide robust data that can be included in farm nutrient planning tools such as PLANET and RB209 when these tools are periodically revised.	<u>WRAP</u> , NFU, Defra, ADBA, RB209, MANURE, Defra Nutrient Management	March 2013	IN PROGRESS MANNER-NPK is currently being updated to include the latest data on digestate quality. The WRAP/Defra " Digestate & Compost in Agriculture " project continues to generate the data required to complete this action.
27	KUD 2.7	Work with organic bodies and the European Commission to clarify the acceptability of digestates derived from non-household food sources on organic land.	<u>WRAP</u> , Organic cert bodies, Defra	March 2013	IN PROGRESS This action relates to the acceptability of digestates on Organic holdings, specifically targeted at the interpretation of household food waste in the European Organic Production Regulation (EC No. 889/2008). A wide range of questions have arisen that require clarification from the EU Commission. Work is being taken forward to address all these aspects.
28	KUD 2.8	Agree and publish a dictionary of terms for the AD industry to reduce confusion. Build on the dictionary published in the PAS110 documentation. Make this dictionary accessible via the AD portal.	<u>ADBA</u> , REA, AFOR, IEA, ESA, NFU, NNfCC	March 2012	IN PROGRESS The dictionary is currently being finalised. It is expected to be published by the end of June 2012.
29	KUD 2.9	Collate and publicise existing data on the benefits of different digestate distribution models (e.g. service or product solution).	<u>WRAP</u> , REA, ADBA, AFOR	December 2011	IN PROGRESS A study of the benefits of different digestate distribution models has been carried out. The final project report, along with a series of case studies, will be published on the WRAP website later in the summer.
Workarea: Raising awareness of AD - community AD and localism					
Number	Task/Issue No	Action to address Issue	Who	When	Update on Progress

30	WMA 1	Collate and publish a library of case studies from all types of AD operation. The library should cover all types of AD operation from those processing material generated on a single farm to large mixed waste merchant operations. Specifically, exploit and promote the key findings from the Environmental Transformation Fund demonstration projects.	NNFCC to publish via the AD portal and collate input from everyone in possession of case studies	September 2011	ACTION COMPLETE A page dedicated to case studies is available on the AD portal. The library will be expanded as further case studies become available.
31	WMA 2	Develop a set of tools that can be used by all those involved in planning, procuring, delivering and operating AD including local communities. The toolkit should build on existing work that has been undertaken on behalf of the Welsh Assembly Government, work already being done by ADBA and REA workgroups and others, e.g. the ADBA buyers guide. The toolkit should cover as many aspects of the development and use of AD as possible and could be developed in a phased approach.	ADBA , WRAP, NFU, EA, ESA, LGA, REA. Publicise via the AD portal	March 2012	IN PROGRESS A bid for funding under the EU Lfe+ for Best Practice project was unsuccessful. Alternative options for delivering this action are being considered. A full structure for delivery of this action is expected to be in place by the end of 2012.
32	WMA 3	Establish a viable Challenge Fund to further the development of AD. The fund should cover the use of AD in all sectors - farm and community type projects as well as larger, more commercial operations. The fund should be focussed on challenging the cost of AD technology, and improving the efficiency of AD. Funding will come from diverse sources. In the medium to long term the fund should include financial contributions from sources such as direct industry sponsorship. Develop a clear dialogue between research bodies and industry to ensure that market needs are underpinned by relevant R&D.	WRAP , ENA, Water and AD Industry	September 2011	ACTION COMPLETE WRAP have launched the "Driving Innovation in AD" programme. The programme has two strands, namely - optimising processing and product manufacture at all scales of AD, and reducing the costs and complexity of small scale AD. 19 projects have been selected for phase 2 of the programme. Information on the programme and its progress is available on the WRAP website .
33	WMA 4	Collate and publicise the range of industry awards for which AD is currently eligible and promote them via the AD portal. Establish a new, industry sponsored award for community AD projects.	CIWM , ADBA, REA, AFOR and industry sponsors, NNFCC	May 2012	ACTION COMPLETE Information on industry awards is available on the AD portal .

Workarea: Building markets for biomethane for transport fuels

Number	Task/Issue No	Action to address Issue	Who	When	Update on Progress
34	WMB 1	A paper will be produced by the Low Carbon Vehicle Partnership which will: -Establish principal opportunities for and demand side barriers to the adoption of biomethane in transport for road haulage -Model the current, and predict the future costs of fuel switching for different fleet operations -Present alternatives for increasing the market for natural gas trucks and the potential impact of interventions -Quantify carbon benefits of biomethane relative to diesel -Examine non-financial barriers and consider approaches to address these.	LCVP , ADBA	September 2011	IN PROGRESS The study is being carried out in two phases. The report " Biomethane for transport: HGV cost modelling " represents the main output of phase 1. Phase 2 of the study will examine the impact of incentives on the uptake of gas as a transport fuel and forecast CO ₂ reductions. Phase 2 is expected to conclude in 2014.

35	WMB 2	This task will consist of three parts: - Analysis of the UK subsidy environment for biomethane - Examination of the costs of using biomethane/compressed natural gas in the transport sector - Establish the scale of the potential supply of biomethane for transport from sources including landfill gas, anaerobic digestion and water treatment works. - DfT will seek views from other interested parties involved in developing the AD Strategy.	DfT with input from industry	April 2012	IN PROGRESS Delivery of this action has been postponed till August 2012.
Workarea: AD in the rural community					
Number	Task/Issue No	Action to address Issue	Who	When	Update on Progress
36	WMR 1.1	To facilitate discussions between Ofgem and industry to address the costs and complexity of injecting biomethane into the gas grid and connecting to the national grid for small scale electricity generators.	DECC and Ofgem	September 2011	ACTION COMPLETE The OFGEM Review Group on Energy Market Issues for Biomethane Projects was established in September 2011 and met regularly. It concluded its work in May 2012 with the agreement of its report. Recommendations from the report have been sent to DECC and OFGEM for their consideration. Information on the work of the Review Group, including a copy of the report, is available on the Joint Office of Gas Trnsporters' website .
37	WMR 1.2	To promote to industry the benefits of schemes that will encourage and enable the use of biomethane injected into the grid.	Each trade association will promote and develop its own scheme for the benefit of the industry.	Ongoing	Trade associations continue to develop and publicise schemes to support the use of biomethane into the grid (e.g. REA - Green Gas Certification Scheme . ADBA is developing a biomethane certificate registry, certification scheme and trading platform, to be known as Green Gas Trading Limited).
38	WMR 2.1	Hold a workshop on 'The sustainability and role of the use of purpose-grown crops as a feedstock for AD. A summary of the findings of the workshop will be produced and published. The workshop will bring together all stakeholders, academics, independent experts and Government departments. It will analyse, amongst other elements, current research on the use of energy crop, and examine the economic implications of the use of this feedstock. It will hear evidence from experts and listen to opinion from stakeholders on the work that has already been carried out by different groups from across the industry spectrum.	Defra	September 2011	ACTION COMPLETE The workshop was held on 7 th November and its findings were shared with stakeholders/ interested parties on 5 th December. The findings of the workshop contributed to the Government Bioenergy Strategy and to the review of the Feeds In Tariffs Scheme. A voluntary code of practice to address the potential risks arising from the use of purpose grown crops in AD is currently being developed.

39	WMR 2.2	DECC, the Environment Agency and Ofgem are jointly developing an easy to use tool to calculate the lifecycle greenhouse gas savings associated with biomass feedstocks used in the generation of electricity, heat and combined heat and power. The tool will cover the cultivation, processing and transport emissions for solid and gaseous biomass feedstocks, apart from landfill gas, sewage gas and wastes such as municipal solid waste. DECC, EA and Ofgem will publicise the tool when it is made available online.	<u>DECC</u> , EA and Ofgem	September 2011	ACTION COMPLETE The UK Biomass and Biogas Carbon Calculator was published on the OFGEM website on 27 th September along with a user guide. The calculator has also been publicised through the AD portal, the DECC website and dedicated sites.
40	WMR 3	Establish a Defra led working group to consider the current opportunities for supporting good practice on farms and the environmental benefits of on-farm AD including GHG reduction, good nutrient management, soil and water quality improvements and the displacement of inorganic fertilisers. The group will publish the findings of this work and set a timetable for addressing potential opportunities within the review periods for relevant instruments.	<u>Defra</u> , ADBA	September 2011	IN PROGRESS Action put on hold to focus on and address follow-up actions arising from the workshop on "the sustainability and role of the use of purpose-grown crops as a feedstock for AD" (Action 38). Defra is currently holding discussions with interested parties to set up the working group, and agree its terms of reference. Action expected to be completed in September 2012.
41	WMR 4	Produce and publish a brochure on the economic viability of small and micro scale AD.	<u>IEA</u> Bioenergy Task 37	April 2012	IN PROGRESS A technical brochure on the availability and viability of small scale (<100kw) biogas plants is being produced. In addition to the brochure, a webpage dedicated to a Plant list for systems <100kw will be made available on the IEA website along with case studies. This action is expected to be completed by December 2012.
Workarea: Finance					
Number	Task/Issue No	Action to address Issue	Who	When	Update on Progress
42	RFF 1.1	Compile a consolidated list of financial schemes available to AD projects which can be used in conjunction with debt and equity funding. Publicise the consolidated list and encourage industry to access the funds.	<u>ADBA</u> to set up a mechanism to collate and publicise the information and to ensure it is kept up to date	September 2011	ACTION COMPLETE A consolidated list of financial schemes available to AD projects is available on the ADBA website .

43	RFF 1.2	To investigate the case for possible intervention, in the form of innovative financial products, to encourage investment in AD projects.	BIS Green Investment Bank team	March 2012	ACTION COMPLETE The Government is investing as UK Green Investments (UKGI) in green infrastructure projects from April 2012, ahead of obtaining state aid approval for the Green Investment Bank (GIB). Commercial and industrial waste processing and recycling, and energy from waste generation, represent priority sectors for the GIB, subject to approval from the European Commission.
44	RFF 1.3	Trade associations to collate and put forward evidence to Government to simplify the Enhanced Capital Allowances scheme by considering AD on a project basis. Currently, the eligible components of an AD plant are listed individually and are spread over ma	ADBA in collaboration with BDO Accountants and consulting with the REA biogas group membership	July 2011 – work has commenced with Accountants	ACTION COMPLETE Collated evidence was submitted as part of ADBA's response to the HM Treasury consultation on 'Capital Allowances: feed-in tariffs and the renewable heat incentive', which proposes removing Enhanced Capital Allowences entirely .
45	RFF 1.4	Investigate other standard financial products already available (e.g. for small scale wind) and establish whether any of the best practice/structures can be used in the AD sector, to fund small scale plants through to large scale.	ADBA finance forum, in collaboration with government, the funding community and input from agricultural sector as likely operators of plants	December 2011	IN PROGRESS No existing standard financial products have been identified that can be applied to the AD sector. The scope of this action has therefore been changed to the gathering of case studies on financial models for AD. Case studies are expected to be published on the ADBA website in July 2012.
46	RFF 2	To help the development of additional AD capacity through new loan fund to help stimulate investment in AD infrastructure.	WRAP	September 2011	ACTION COMPLETE A £10 million loan fund designed to support the development of new AD capacity in England was launched in July 2011. The first loan was offered in October 2011. A further five applications have been received. The loan fund remains open for new applications; full details on the fund are available on the WRAP website .

47	RFF 3	Provision of agreed standard due diligence templates for the industry to use as guidelines and best practice and the production of a standard set of legal documentation.	ADBA , relevant Government departments, key funding organisations including VCTs, equity funders and mainstream banks	ONGOING	This action has been re-categorised as ongoing. Due diligence templates have been produced and are available on the ADBA website . A standard set of legal documentation is being produced. Legal documentation will be kept under review to reflect regulatory developments/ changes.
48	RFF 4	Delivery of stakeholder meetings designed for the finance community. Provide a suitable forum for general communications, dispute resolution and proactive management of key issues. ADBA already undertake such workshops.	ADBA with DECC, WRAP, Defra, BIS	ONGOING	The finance forum set up by ADBA in 2010 continues to be held on a regular basis. It brings together representatives from the main banks and venture capital community with a view to raising awareness of AD across the finance sector and helping to remove barriers to funding AD projects.
Workarea: Regulation					
Number	Task/Issue No	Action to address Issue	Who	When	Update on Progress
49	RFR 1.1	Extend the availability of Standard Rules for AD. The EA have previously consulted on a revision of the standard rules permit for AD. The results of this consultation have now been published and revised standard rules will be published and will take effect from the beginning of August 2011.	EA	August 2011	ACTION COMPLETE Standard Rules (SR) 2010 No. 16 - 'On-farm anaerobic digestion facility including use of the resultant biogas' have been revised following public consultation. The revised standard rules are available on the EA website . A review of waste types eligible for SR approach will be carried out as part of the review of all SRs.

50	RFR 1.2	The EA will continue its work on the consideration of waste types for inclusion in AD. It will use its risk based regulatory approach to ensure the right outcomes and link this work to the consideration and revision of the AD Quality Protocol.	<u>EA</u>	September 2011	IN PROGRESS Actions 50 and 51 are closely related and are therefore being taken forward together. Work is under way to establish a standardised methodology for assessing the suitability of proposed new waste types for AD, composting and other biological treatments. A project to gather the evidence to underpin this approach is nearing completion. The EA is about to complete a review of the Quality Protocol for digestate. WRAP are reviewing the PAS 110 and are expecting to complete this work in Autumn 2013.
51	RFR 1.3	Extend PAS 110. The EA have now set up a Special Interest Group in order to progress submissions for new waste streams and end uses for digestate which allows PAS110 certification. The EA will update their website providing a proforma and guidance for additional waste and end use submissions.	<u>EA</u>	September 2011	IN PROGRESS Refer to update on Action 50
52	RFR 1.4	Transfer of feedstock and digestate between farms. The EA will consider the recommendations that were raised by stakeholders and will complete a review and identify recommendations and actions to be taken forwards.	<u>EA</u>	September 2011	IN PROGRESS The requirement for pasteurisation is currently being considered and is expected to report back in late Autumn. A review of the status of crop residues destined for AD under the revised Waste Framework Directive, including of whether the digestates produced from them should be regulated, is under way.
53	RFR 1.5	Ensure regulatory tools for AD are fit for purpose for delivering the Industrial Emissions Directive (IED). The EA will deliver proportional and risk-based delivery of the IED in advance of when the IED takes effect for new and existing AD operators.	<u>EA</u>	January 2013 (for new installations) Jan 2014 (existing installations) July 2015 (newly prescribed activities)	IN PROGRESS The EA has set up a project group to deliver against the IED. The EA aims to launch a consultation on draft Standard Rules in June 2012.
54	RFR 1.6	Development of a quality protocol on biomethane to establish a point at which biomethane produced from waste feedstocks can be used as a product and is no longer regarded as a waste. Work on this process has been started via the European Pathway to Zero Waste initiative. The process to development is led by a technical advisory group that includes representation from industry as well as from regulators.	<u>EA, EPOW</u>	March 2012	IN PROGRESS A draft Quality Protocol on biomethane has been developed. A public consultation was launched in early June and will run till the end of July. Information on the Quality protocol can be found on the EA website .

55	RFR 2	Clarify the regulation of co-digestion of waste with sewage sludge at sewage treatment works. A task and finish group led by the EA and Water UK has been established. Once the results of this work are fully available, the EA and Defra will work together to further clarify the regulatory position.	Water UK, EA	April 2012	ACTION COMPLETE The EA and Water UK have concluded their work and produced a report on the regulation of sewage sludge and on co-digestion which includes land spreading of the digestate . The findings will be further considered as part of the Defra/EA "Waste to land" project looking at the effects of all materials to land.
56	RFR 3	Facilitate a forum/hold regular meetings to discuss and understand planning reforms as they affect AD.	DCLG meeting on planning issues inviting REA, NFU, CLA, ADDBA, DCLG, LGA, EA, CIWM etc.	Ongoing	A forum has been set up to discuss planning reform and its implications for the AD sector. The first meeting was held in May 2012. Meetings will continue to be held on a regular basis.