COULD YOUR FARM BE MAKING MONEY FROM ANAEROBIC DIGESTION?

Britain's farmers are fighting a war on two fronts, battling to stay in business in a tough economic climate, while under pressure to reduce high levels of greenhouse gas emissions.

Many farmers have already discovered a weapon to help win this war.

2 TONNES OF MAIZE SILAGE

2.3 TONNES OF GRASS SILAGE

SLURRY FROM 1 COW IN A YEAR

DIFFERENT FEEDSTOCKS THAT CAN GENERATE 1,000KWh OF ELECTRICITY USING ANAEROBIC DIGESTION

3,200 POTATOES

ADBA | Anaerobic Digestion and Bioresources Association | THE ENERGY BEHIND THE AD REVOLUTION | adbioresources.org
WHAT IS AD?

**ANAEROBIC DIGESTION** – known in the industry as ‘AD’ – is a naturally occurring process of decomposition.

The energy released from the breaking down of organic matter can be harnessed in a farm-based AD plant to make electricity, gas and green fuel for tractors.

What’s left is an excellent organic biofertiliser.

Growing numbers of farmers up and down the UK are already using AD to generate energy from waste and crops, cut their emissions, reduce their costs and increase their profits.

SOME OF THE BUSINESSES ALREADY USING AD

**BANK FARM**
Powys
Feedstock: cattle slurry, poultry manure and apple pomace

**BARFOOTS OF BOTLEY**
West Sussex
Feedstock: slurry, vegetable and other waste

**CLAYTON HALL FARM**
Yorkshire
Feedstock: local business waste, energy crops and slurry

**SPRING FARM**
Norfolk
Feedstock: maize silage, grass, sunflower and other wildflower mixes

Turn to the back page to find out how to get FREE professional advice on whether AD is suitable for your farm

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As the only trade association dedicated to AD and biogas, ADBA is leading the development of the industry.

If you’re an ADBA member, we will give you a powerful voice with government, industry regulators and the media.

We’ll offer you guidance, support and resources, and can showcase the benefits of your products and services directly to the widest range of interested parties.

Our goal is to increase your bottom line, and develop a mature and safe AD and biogas industry in the UK.

For more information about becoming an ADBA member go to [adbioresources.org](http://adbioresources.org)
THE BIG QUESTIONS

**Is my farm suitable?**
There are a number of considerations including the amount of waste you generate, the size of your farm and your energy needs – you can find out more by visiting the website and signing up for our free Farming Consultancy Service.

**What are my options?**
- Build your own plant
- Lease your land to an AD developer/operator
- Grow and sell crops for AD
- Join an AD co-operative
- Or a combination

**Can I get financial help?**
The key government support comes from incentives for producing renewable energy – principally the Feed in Tariff for electricity and the Renewable Heat Incentive for biomethane and heat. More details of financial schemes available for AD can be found on the ADBA website.

**Aren't AD plants noisy and smelly?**
Plants only get a permit from the Environment Agency if they meet criteria designed to help prevent nuisances, such as noise and odour.

“AD is the perfect vehicle to ensure Britain’s status as the world leader in climate-smart farming.”
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**JIM PAICE MP, DEFRA MINISTER**

“I want the UK to show leadership in anaerobic digestion... There are great business opportunities in this technology, creating heat and power to run homes and businesses and reducing the amount of organic waste that would otherwise lie rotting in landfill.”
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**CAROLINE SPELMAN MP, SECRETARY OF STATE, DEFRA**

“Getting new investors to come into the clean energy market is one of my priorities. Energy from waste has the potential to make a substantial contribution to our renewable energy targets.”
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**EDWARD DAVEY MP, SECRETARY OF STATE, DECC**

“We offer a free farming consultancy so we can help answer these questions and many more.

Go to adbioreources.org to find out what we can do for your business.”

“The coalition is committed to a huge increase in energy from anaerobic digestion. We are simplifying the regulatory regime for operators of AD installations... because we are talking about a very important technology.”
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**GREG BARKER MP, DECC MINISTER**
ANAEROBIC DIGESTION ON A FARM

16% of UK methane emissions come from manure management.

7.7% of the UK’s greenhouse gas emissions in 2003 caused by farming and land use.

ORGANIC FARM WASTE (CROPS & SLURRY)

GAS GRID

FOOD PRODUCTION

TRANSPORT FUEL

DIGESTATE INTO LAND

SOLIDS & LIQUIDS DE-WATERED

BIOMETHANE (UPGRADED BIOGAS)

BIOGAS

BIO RESOURCES

CHP UNIT 24HR COMBINED HEAT & POWER GENERATION

ELECTRICITY

HEAT

1 TONNE OF OIL + 108 TONNES OF WATER = 7 TONNES OF CO₂

1 TONNE OF ARTIFICIAL FERTILISER

4.5% of the UK’s renewable energy target could be delivered by 1,000 on-farm AD plants.
HOW CAN ANAEROBIC DIGESTION HELP YOUR FARMING BUSINESS?

**BIOFERTILISER PRODUCTION**
AD produces a biofertiliser (digestate) which preserves and returns critical resources to the land. Digestate performs better than expensive and potentially harmful chemical fertilisers, improving yields and keeping costs down.

**POWER AND FUEL**
Biogas from an AD plant—which can be converted to electricity, heat or biomethane—can heat and power all parts of your farm, even your tractor! And you can sell what you don’t use into the grid.

**DIVERSIFICATION**
AD works as part of a traditional farming portfolio without detracting from the core business of farming. Purpose grown crops for AD can be cultivated as part of an agricultural rotation. This improves soil quality and increases yields, and means you can make profit from break crops and food crops.

**WASTE MANAGEMENT**
AD systems can treat almost any organic waste—slurries, chicken litter, vegetable offcuts, outgrade crops, ABPR material and more. Using AD on farm can reduce costs and methane emissions from waste treatment, as well as providing revenue from the energy and digestate generated.

**GREENHOUSE GASSES**
14% of Britain’s greenhouse gas emissions come from farming, whether from slurry, energy consumption, fuel use or heat from food growth. Diverting farm waste to AD not only reduces environmentally damaging methane, it converts it into renewable energy.

Contact us now to arrange a FREE consultation, and we’ll help you start generating new income for your business as soon as possible.

Call us on **0203 176 0503** or register your interest at adbioresources.org