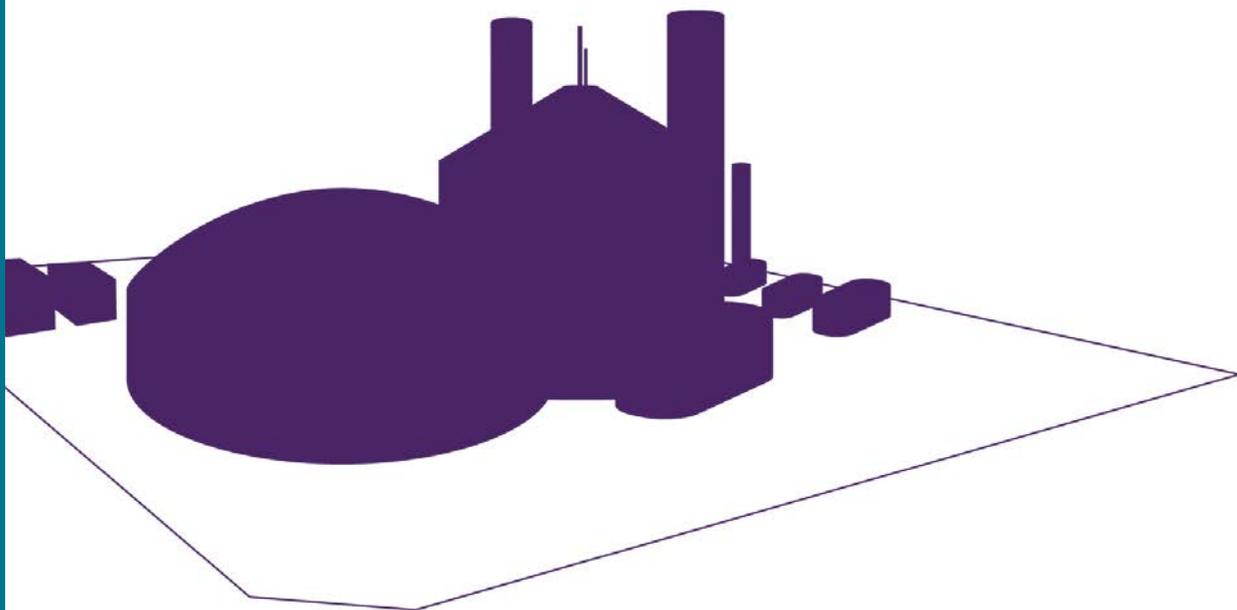


Anaerobic Digestion Specialists

Supporting Project Delivery Every Step of the Way



ENERGY



Services



Scoping

There are many opportunities presented by energy saving and renewable energy generation technologies. Through assessment of your energy needs and capacity for installation (buildings and landholding) the JHWalter Energy Team can present the business cases for different AD technologies. This provides the information required to make an informed choice on which alternative to pursue.



Delivery

Delivery of a renewable energy project requires many mutually dependant elements of work to be undertaken. Such elements include negotiating technology supply and maintenance contracts, securing a grid connection, discharging planning conditions, registering for government incentives such as ROCS, FiTS and the RHI, and securing preferential rates for Power Purchase Agreements. The JHWalter Energy Team offer advice and can deliver such work using in-house and third party expertise where required.



Feasibility

Once the principals of a scheme have been chosen (based on site suitability and the underlying business case) more detailed investigation is required. This includes appraising the most suitable specification for the respective technology, obtaining indicative quotes for all work, preparing more detailed financial forecasts (based on validated capital costs) and drafting a strategy for project delivery. Feasibility studies to support applications for lending can also be prepared.



Project Management

Due to the extended timescales from conception to commissioning, combined with the involvement of multiple contractors, project management is required to keep all project aspects on course. Furthermore due to the nature of the project, clients are obviously keen to be kept up to speed with all developments. The JHWalter Energy Team offer a project management service tailored to the project and clients needs.



Planning

The JHWalter Planning Team work hand in hand with the Energy Team as planning is so integral to any renewable energy project of significant scale. Having successfully secured permission for dozens of renewable energy schemes throughout the UK the JHWalter Energy and Planning Teams have the experience required to navigate your project through planning in the most efficient way.



Regulatory

Understanding the relevant regulatory landscape is vital to ensuring compliance, but also to determine the strategy of a project. With a detailed understanding of the current, proposed and still under debate regulations, the JHWalter Energy team can advise on how to best structure a project to maximise regulatory opportunities whilst minimising regulatory risks.



Funding & Financial Support

Where third party funding is required, the JHWalter Energy Team can assist by identifying possible funders, preparing the necessary business plans and supporting offer negotiations as required. Knowledge of FiT & RHI accreditation and the application processes also means the JHWalter Energy Team can advise on where such funds are available and how to access them.

ENERGY



Why AD?

AD is the only technology that can provide power security, effectively working on a 24/7 basis, and so where energy demands are high and consistent, AD is attractive. With the “right” feedstocks, plants can pay back in 7 years and thereafter one can expect to be profiting from the sale of 8000 hours of power per year - around 90% efficient.

For CHP systems, ideally one wants to be able to use the surplus heat, particularly given financial support via the RHI. Heat uses add increased viability but also improves the environmental credentials of the development. If no heat uses can be found and a local gas grid is available, gas injection becomes attractive for larger scale units.

Why JHWalter?

JHWalter have been involved in the AD sector for over five years and has worked on a range of projects from 125kW to 5MW in both the farming and industrial sectors across the UK. We have advised from the merest germ of an idea through planning and construction to commissioning and subsequent further development. As well as professional expertise we have an enthusiasm for the technology and how it can best meet our clients needs and expectations. Acting independently we have provided clients with clear steerage on how to develop successful AD units from technology choice to feedstock supplies and overall project management. The case studies below provide some examples of our past project work.



Vegetable Producer

5MW thermophilic plant with vegetable and crop feedstocks. Technology selection, funding, project delivery, commissioning, permitting and accreditation for FiT and CHPQA. Continued advice as project increased to 5MW on one site and further development of 2MW plant on separate site.



Small Scale AD

An increasing number of smaller scale projects up to 250kW utilising farm generated waste streams supplemented with rotational feedstocks, feasibility, grid connection, technology selection, planning, permitting Ofgem etc.



Farming Estate

Technology selection, grid connection, planning application and permitting requirements for 500 kW plant using under-utilised grass and maize as feedstocks. Accreditation for FiTs CHPQA and ECA's etc.



Arable and Livestock Farming Businesses

Numerous farming businesses with a variety of ‘agricultural type’ waste streams supplemented with purpose grown crops including maize, whole crop, grass, beet and straw.



Farming Estate

A pharmaceutical business with substantial energy use producing a digestible by-product suitable for AD. Opportunities also for water treatment.



Commercial Energy Project

Large energy consumer working in conjunction with farmer group providing range of feedstocks supplemented with a variety of food/agricultural waste streams to meet substantial energy demands.

Delivering Your Project

JHWalter not only provides independent renewable energy advice, but provides the support services necessary to bring your renewable energy vision to life.

Developing a successful and profitable AD project is a complex challenge. With experience of a range of scales and technologies, JHWalter can support you with all aspects of project delivery, quickly and efficiently.



About us

JHWalter, established in 1790, has a wealth of experience in supporting private and public sector clients to capitalise on property and business opportunities.

With the advent of renewable energy opportunities, providing a service in this space was logical to JHWalter. Renewable energy technologies may be new, but the fundamentals of ensuring project success remain the same: market knowledge, technical expertise and experienced project management.

With eight years professional experience in the renewables sector, our team of consultants have in depth knowledge of AD, Wind and PV as well as heat technologies. We are currently working on a wide range of renewable energy projects. This, combined with decades of experience in delivering other successful agricultural projects, gives us the confidence that we can provide the support you need. JHWalter staff are Professional members of:



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For more information on AD, contact David Wright or Henry Haworth on 01522 504359 or email energy@jhwalter.co.uk