



BACKGROUND INFORMATION

Malaby Biogas is a division of Malaby Martin Ltd based in Bradford on Avon in Wiltshire. Malaby Martin is a property development business specialising in the preservation and conversion of rural properties such as cottages, barns and dilapidated farm houses. It is a conscientious company which has worked to marry sustainability and tradition. It aims to provide energy efficient houses using local labour and products wherever possible. The establishment of Malaby Biogas comes after considerable research into the issues surrounding sustainability and construction and several key points were identified where the company can provide a solution.

Reduced transportation

During the construction process a significant proportion of the energy and cost relates to the transportation of materials and labour. Vehicle movements to and from a site and distances travelled can be significantly reduced by using:

- off site construction methods such as timber framing
- local suppliers such as contractors, sub contractors and materials
- maximising the use of innovative recycling practices such as aggregate crushing, material reclamation

Running costs

As well as the development work undertaken to create a new property a large amount of the energy used comes after occupation in the running costs of providing electricity, heat and water. Current Building Regulations are designed in part to address the reduction of running costs by requiring certain levels of insulation or efficiency of appliances.

Embedded cost

The transportation of resources to a property requires additional burdens to get them there. For example in order to provide electricity to flow out of a socket some distant centralised power station needs to provide additional power to compensate for losses along the way (transmission losses). The cost of these losses is known as 'embedded cost' and covers the additional cost burden of building larger power stations, bigger pumps to provide constant water pressure and the additional fuel needed to power these losses.

Clean efficient energy



Flexible plant design is adaptable to site requirements

Malaby Biogas aims to take energy efficiency one step further by removing a large amount of the embedded costs required of a property by generating energy closer to the consumer. Additionally, the use of organic waste to provide this power means that there is less burden on landfill sites and reduced greenhouse gas emissions as the organic waste is used in the power generation. In a domestic setting a direct connection can provide more affordable energy whilst an indirect connection of renewable energy will ensure a more sustainable power supply with lower embedded costs.

Not forgetting our roots



Sustainable solutions with minimal impact

By maintaining our strong ethical discipline and our focus on the benefits of local solutions Malaby Biogas will be able to provide clean, efficient energy that the local area can be proud of. Preservation and sustainability are key ideas that drive our ambition for a sustainable environment.