Anaerobic digestion

Cutting edge green energy production

Our organic 'soup' production for use in anaerobic digestion (AD) facilities places us at the forefront of the green energy sector.

We have been supplying AD facilities with high quality waste-derived soup for over five years and have now partnered with Associated British Foods to build an AD facility at our Maltings site. This new AMUR plant is a 60,000 tons per annum, 100% waste fuelled plant and we supply all of its soup – in-spec – and to strict targets.

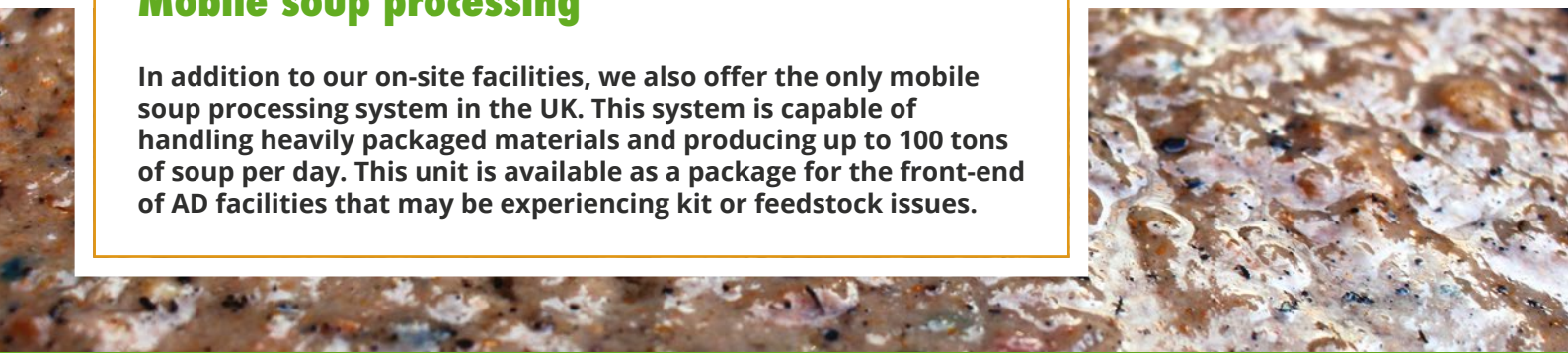
Research into this type of organic waste processing began eight years ago when we decided to look at how we could better harness energy from waste organics. Our wealth of experience in the collection, pre-treatment and recovery of various waste types gave us a great start for the production of AD-ready soup from a wide array of waste – including heavily contaminated wastes.

We believe that one of the biggest problems in the AD market is a lack of understanding and process knowledge at the front end – our consistency of balance with feedstock ensures high quality AD process results every time.

Our current permitted soup production on-site is 175,000 tons per annum, with our Hull site – currently under construction – set to add another 100,000 tons of capacity.

Mobile soup processing

In addition to our on-site facilities, we also offer the only mobile soup processing system in the UK. This system is capable of handling heavily packaged materials and producing up to 100 tons of soup per day. This unit is available as a package for the front-end of AD facilities that may be experiencing kit or feedstock issues.



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On-site lab and specifications

As well as the mechanical processing of waste and continuous mix production, we have invested heavily in internal lab equipment to enable testing our soup for:

- **Biochemical Methane Potential (BMP)**
- **Chemical Oxygen Demand (COD)**
- **Contamination levels and balance for end-use fertilisers**

On top of this are rigorous weekly external tests and validation of our materials against PAS110 certification and actual energy production.

We now supply to customer-set specifications to allow the correct level of energy recovery in their plant, and at the lowest contamination level possible to ensure equipment longevity. We are able to alter and balance material to suit every system for optimum digestate use.

In another first, we can also offer product insurance on our material in the event of an issue resulting in the loss of gas production.

Publicly Available Specification 110 (PAS110)

PAS110 covers all AD systems that accept source-segregated waste. It specifies the:

- **Controls on input materials and the management system for the process of anaerobic digestion and associated technologies**
- **Minimum quality of whole digestate, separated fibre and separated liquor**
- **Information that is required to be supplied to the digestate recipient**

Disposal services

As well as feeding AD facilities, we also offer disposal services for AD residues. These include the recovered packaging and digestates, but we also specialise in disposal and recovery of the heavily contaminated sludges from tank dig-outs etc. These are often severely grit and glass contaminated and can also cause issues with heavy metals.

We are fully CAT 3 licensed and able to take loads ranging from a single one-off to thousands of tons of material per week.

Get in touch today to discuss your requirements

Sludge from tank dig-out

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