



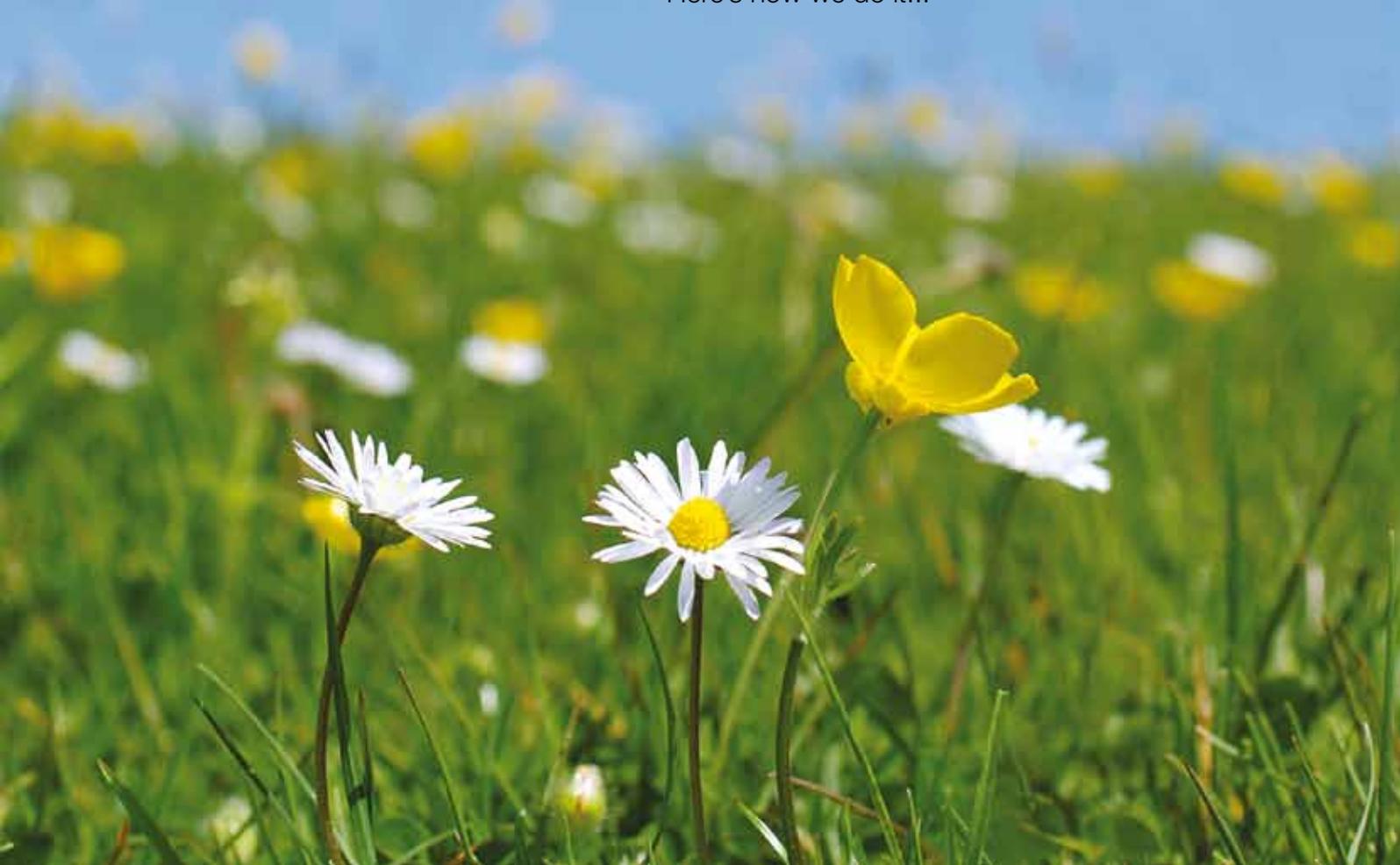
Cleaner Fuels

Cleaner Climate

Cleaner World

Following 25 years in the waste processing business, Biocentre® is revolutionising the industry by producing state-of-the-art fuels that are refined and bespoke to end user requirements using advanced recycling technologies in the most Carbon efficient and sustainable manner.

Here's how we do it...



The Biocentre® Solution



With its practical experience and understanding of the UK and EU waste market, Biocentre® has developed a clean technology for processing waste and producing quality fuels for green energy to meet global demand.

Biocentre® facilities are designed to operate at the highest standards whilst providing maximum flexibility. This allows the operator to compete with changes in the market and protect its commercial interests.

The Biocentre® process is one of the most comprehensive available with the ability to provide the

following:

- Refined Mechanical Biological Heat Treatment (MBHT) processes
- High quality Secondary Biomass Fuel (SBF) production
- Automated mechanical recycling and reprocessing

The removal of human contact from the waste stream for recycling is a critical consideration for commercial scale operations. The Biocentre® process is fully automated and enclosed so provides the most cost effective solution with minimal risk

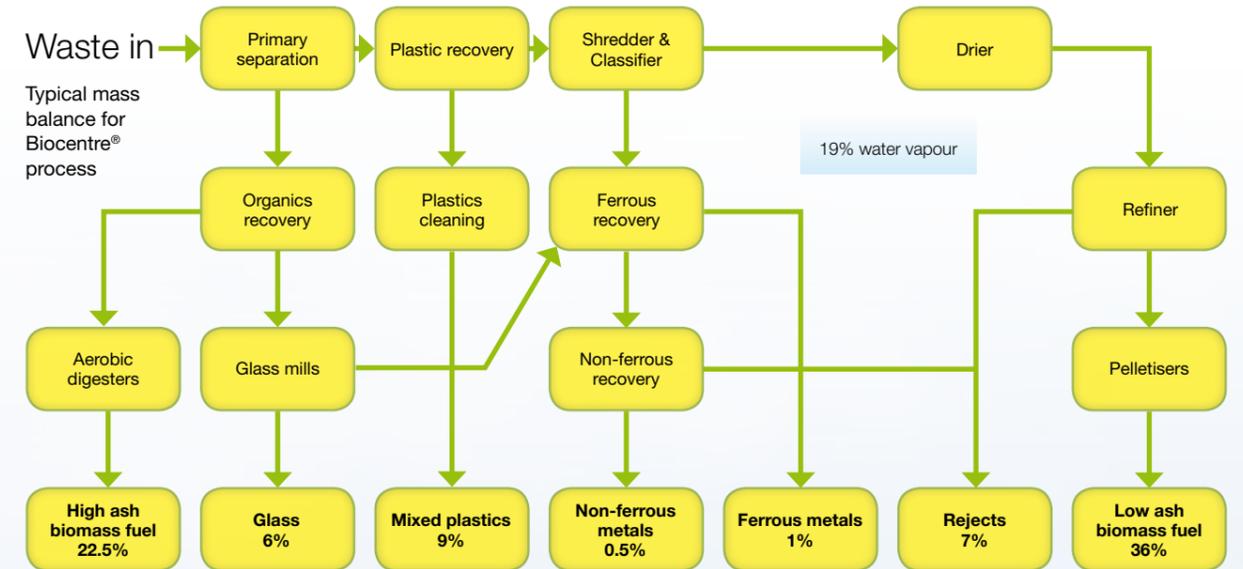
to the operators or the environment.

Separated materials are processed using mostly a gravity fed and controlled automatic system, which produces high quality outputs such as:

- Over 95% clean metals
- Washed and screened glass granules
- Clean and separated plastics
- Treated waste water
- Dry and refined biofuels

These can displace raw materials and so minimise wastes to landfill avoiding associated impacts and costs.

Biocentre's purpose is to manufacture a fuel that can be used by a number of business sectors. A fuel which not only competes with traditional ones such as coal and wood chip, but which can do this by its flexibility and control of key fuel characteristics. Biocentre can deliver a required calorific value fuel, biomass content and physical form to the buyer.



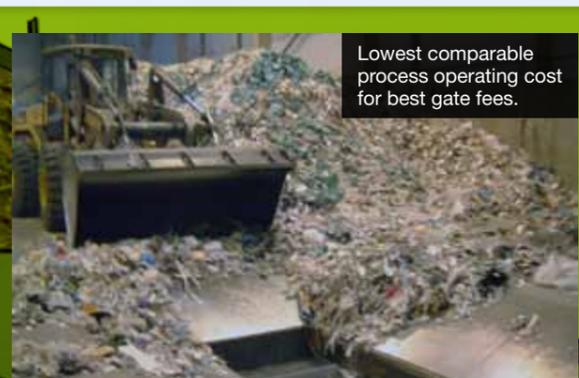
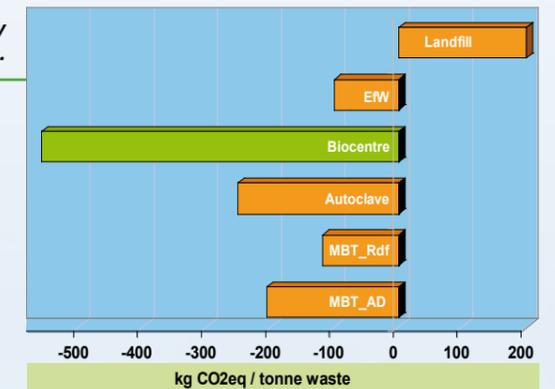
Net 0.5 tonne of CO₂ removed from the atmosphere for every tonne of waste processed (best carbon footprint in the industry).

This fuel along with the benefits described above ensure Biocentre's unique position as a true producer of renewable energy..

Biocentre® is fully compatible with residual bin or single bin collection, minimising costs while maximising material recovery and recycling. Councils have the option to use the Biocentre® for recycling instead

of multi-bin collections after prioritising source separation of batteries, WEEE and re-usables (e.g. toys, clothing, etc).

In addition to these benefits and savings, Biocentre® also produces a biomass fuel output for true renewable energy.



How Biocentre® works...



Collected black bin bag waste is delivered to a Biocentre® facility



Automated mechanical processing sorts organic waste from recyclates



Organics are prepared for aerobic digestion



Glass and metal is recovered for recycling



Plastics are recovered and separated for recycling or use in fuel production



Separated fibre materials are used to produce a biomass fuel product



Resultant fuel pellets (SBF) is suitable for power generation



Electricity and heat can be generated from refined fuels

Biocentre® history

Plants incorporating Biocentre Technology:

LOCATION	FACILITY TYPE	STATUS	CAPACITY	WASTE TYPE
Eastbourne	Mechanical Treatment	1980 - 1998	65ktpa	MSW
Isle of Wight	Mechanical Heat Treatment	1982 to date	75ktpa	MSW
Hastings	Mechanical [Biological] Heat Treatment	1986 - 2004	95ktpa	MSW
Castle Bromwich	Mechanical Biological Heat Treatment	1989 - 1998	130ktpa	MSW
Slough Fibre Fuel	Mechanical Treatment	2003 to date	125ktpa	CIW
Ketton, Castle Cement	Mechanical Treatment	2003 to date	95ktpa	CIW

Note: The Biocentre® process has been developed and proven over a series of plants from the 1980s. The plants listed have been evolved further into the Biocentre® process and will produce even higher grades of fuel for a wide range of industrial users. Legislation and taxation changes now enable the economics to be attractive investments for own and operate developments.

Consider the facts...



The UK produces over 400 million tonnes of waste per year.*

38% of this waste (100%

of all black bin bag waste) is suitable for Biocentre® at a competitive gate fee per tonne.

Of this, solid non-hazardous waste, around 70 million tonnes per year can be processed into Secondary Biomass Fuel (SBF). A single Biocentre® facility with an intake of 250,000 tonnes will produce approximately 50% as SBF.

This represents approximately 40MWe of electrical output per site and can directly replace coal.

*source DEFRA 2012

Biocentre® key features

- **Best carbon footprint**
- **Best local environmental impact (compact, clean, enclosed)**
- **All-in-one, fully automated process**
- **No significant emissions**
- **Enables simple waste collection with competitive gate fees**
- **Accepts all black bin bag waste**
- **Automatic recycling and recovery of materials as a priority**
- **Low cost, high quality fuel production**
- **Sustainable biomass source displaces coal**
- **Occupies standard industrial building (less than 15m high)**
- **Lowest comparable process operating cost for best gate fees**
- **Straightforward planning and short development cycle (typically 12 months to become operational)**

Find out more about Biocentre® waste processing and fuel production in your area...

Visit biocentre.co or phone **0207 112 8908**.



biocentre®

Biocentre Technology Limited

4 Eastgate House, East Street,
Andover, Hampshire, SP10 1EP

T: +44 (0)207 112 8908

E: info@biocentre.co

www.biocentre.co



For a cleaner world