



WKE

Alternative fuel for a greener future

WKE Fuel Pellets Fuel Prospectus

www.wkeltd.com

WKE pellets are an attractive alternative to fossil fuels.

Reducing fuel costs, CO₂ and landfill.

Using biomass (such as fibre, packaging, and mixed wood materials) from Commercial & Industrial (C&I) and Construction & Demolition (C&D) waste streams, as well as non-recyclable, low chlorine content plastics, we are able to produce a fuel that offers significant advantages in terms of both energy costs and environmental impact compared to traditional alternatives.

By pelleting this material, we are able to make a fuel that can be transported easily and cost effectively, for use in place of traditional solid fuels with little or no modification required to existing plants.

“Our goal is to produce a quality, stable and compliant fuel which will enable our customers to enhance their ESG scores with a cleaner energy at a lower cost.”

Due to the low cost per tonne and high energy content, the price per Gigajoule (GJ) is significantly lower than for traditional fuels.

NCV - MJ/kg	£/GJ	
	2020	2022
Coal (Anthracite) 29	€2.40	€17.68
Pet Coke 29.5	€2.47	€31.44
WKE Fuel Pellets (21)	€2.21	€3.24
Wood Pellets (17)	€8.11	€17.67

*Based on estimated CIF prices. Prices will vary due to relevant taxes

Reducing landfill by re-purposing Waste

The pellets are produced from waste that is not physically or economically possible to recycle. Transforming and repurposing this material into fuel pellets stops this material going into landfill and provides end users with a high CV, low moisture, and significantly reduced CO₂ alternative.

Helping industry decarbonise





Key industries

Power Generation

In today's geopolitical climate energy security is critical. WKE fuel pellets have a significantly lower cost per GJ of energy and unlike these fuels which are normally transported over large distances from abroad the raw material is sourced locally.

Steel Manufacturing

Our pellets offer a stability of supply in terms of both specification and price, and significant benefits for companies reporting on ESG scores. With significant EU targets on decarbonisation, the high biomass content of the pellet is a significant advantage.

Cement Production

330 million tonnes of coal is consumed by the cement industry annually; the reduced fuel costs and significantly lower carbon emissions makes our Waste Knot pellets the ideal fuel source. WKE is also able to offer a short cut pellet which would enable the product to be used in the main burner.

Product Specification

All our pellets consist of non hazardous commercial and Industrial Waste which has been diverted from landfill. They have a number of advantages:

- It is easier to transport and store and offers a cleaner product when compared to loose and bailed SRF.
- It is a refined, re-processed and upgraded product, i.e. low chlorine and ash content when compared to RDF/SRF).
- Highly homogeneous.
- All product is independently tested by an accredited laboratory to ensure spec quality.

Attracting environmental incentives

Due to the high biomass content the WKE pellet is a permitted CfD fuel. Using it significantly reduces CO₂ when compared to coal and gas and can support improvements in corporate ESG scoring and reporting.



Parameter	Value	Ash Specification
Pellet Diameter	8mm - 9mm	Spherical C 1150°
Calorific Value	>20MJ	Hemispherical C 1320°
Moisture	3% - 6%	Flow C 1360°
Bulk Density	500kg/m ³ - 600kg/m ³	SiO ₂ 2.07%
Durability	96% - 98%	Al ₂ O ₃ 51.00%
Ash	11% - 15%	Fe ₂ O ₃ 2.48%
Chlorine	0.5% - 0.9%	CaO 5.00%
		MgO 0.45%
		K ₂ O 0.41%
		Na ₂ O 0.17%



Future site locations

WKE has an ambitious growth plan – security of supply is critical for our customers and we aim to produce 2m tons per annum.

WKE sites have been planned in locations to take advantage of local transport hubs. These sites have been identified in both the UK and Western Europe.

This maximises transport efficiency, minimises transport costs and reduces the carbon footprint of transport into and out of WKE sites. The first site at the port of Middlesbrough is on the North Sea Supply Base and ideally located to enable transportation by land, sea or rail.

We are looking to co-locate with strategic business partners (either suppliers, offtakers or both) in order to achieve this.



WKE commitment to quality

As a business in the Gresham House portfolio we are committed to the UK Net Zero target and are proud to be manufacturing a product which can contribute to that aim. Governments are asking the biggest polluters to pay for the transition to Net Zero through carbon pricing; our pellets will make that experience easier and cheaper for our customers. Our pellets support the improvements that legislators want to make in diverting biogenic waste from landfill and plastics from incinerators, offering up a dual point of compliance for industry.

We have recently been awarded our integrated UKAS-accredited system certification for ISO 9001 quality management, ISO 14001 environmental management and ISO 45001 health and safety management and we look forward to working with clients across the world to provide alternative fuel solutions that simultaneously reduce fuel costs and emissions.



Financial backing

Gresham House plc is a London Stock Exchange quoted specialist alternative asset management group that provides funds, direct investments and tailored investment solutions. It has c.£6.6bn assets under management.



www.wkeltd.com

Contact us

T 07865 082549 / 07342 690192
E enquiries@wkeltd.com

Waste Knot Energy
Riverside Park Road
Middlesbrough
United Kingdom
TS2 1UT



Certificate Number – 19805-011