



How can you extract value from waste?

Energy from waste covers a range of technologies and processes that turn waste products into valuable resources such as power, heat, and renewable energy. There are a number of processes used to convert waste into value, including incineration, anaerobic digestion of organic waste, gasification that turns organic matter into methane, pyrolysis to break down feedstock molecules to produce fuel, and bioenergy which derives fuel from biomass.

UK expertise in waste-to-energy

UK waste-to-energy companies excel at:

- Design, manufacture and supply of refuse collection and sorting equipment;
- Conversion of waste to biofuels;
- Design and engineering of advanced conversion components;
- Power generators and combustion equipment for biopower; using biomass for cofiring/ coal conversion.

UK waste-to-energy companies exporting to the Middle East

Green Fuels

Green Fuels is a pioneer in renewable fuels, supplying biofuel equipment with capacity equating to \$500bn in fuel sales to customers in more than 80 countries. The company was awarded a Royal Warrant of Appointment to HRH the Prince of Wales and has contributed to many pioneering projects, including the first 100% biofuel-powered jet flight and the first 100% biofuel-powered train. Green Fuels is establishing capacity as a global sustainable fuel producer in sustainable aviation, marine and road fuels. The company's FuelMatic GSX biorefinery technology is being used in Oman's first sustainable biodiesel plant by its joint venture in the Arabian Gulf, Wakud International. The facility will use used cooking oil as feedstock and will be operational in October 2021.

Kiverco

Kiverco is designing and building a number of waste processing systems in the UAE and in Saudi Arabia. Each project is bespoke to the specific waste stream and customer requirements but all have been provided on a turnkey basis. Up to 95% of the incoming waste is processed and recycled for further use. Kiverco's recycling solution delivered for the Red Sea Project is designed to process in excess of 150,000 tonnes per year of construction waste on the Red Sea coast. The recovered materials will be recycled into new products as well as provide fuel to generate electricity at the nearby waste to energy plant. The plant will be used for years to come to process other waste streams in the area.

Learn more about UK renewable energy solutions for your business

Contact us