

# TEG supply options

	Standard	Optional
Site study		✓
Assistance in local stakeholder/regulator liaison		✓
Development of appropriate specification for civils and odour control		✓
Technical support for planning applications, environmental permits and ABP approval	✓	
Interim management of wastes in TEG owned composting sites during plant construction period		✓
Construction of civils, buildings and site infrastructure		✓
Supply, installation, commissioning, testing and early operation of:		
Feedstock preparation equipment	✓	
Waste feed system	✓	
Biological treatment by TEG IVC or UTS AD	✓	
Product unloading, post-treatment and storage	✓	
Odour control system		✓
Energy recovery system		✓
Operator training	✓	
Technical support to ongoing operation		✓
Maintenance contract on plant and equipment		✓
Operating contract		✓
Marketing of energy compost & digestate products		✓
Plant and process warranties	✓	
Extended warranties		✓
Lifetime throughput guarantee		✓

**Bespoke solutions for urban, rural and brownfield environments.**

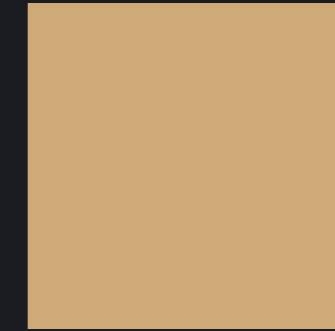
TEG operates sites throughout the UK and visitors are welcome.

If you would like to visit one of our sites or require further information please call us on **01772 644980** to arrange an appointment or e-mail [enquiries@theteggroup.plc.uk](mailto:enquiries@theteggroup.plc.uk)

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the way forward with organic waste



a collaborative approach to meet UK market demands



# Organic Waste Treatment Options

Composting and anaerobic digestion are two established methods of recycling organic material and returning a quality product to the land to replenish the soil nutrients. Compost products also enhance soil structure whilst anaerobic digestion recovers energy from the waste in the form of electricity, biomethane or heat.

TEG offers technologies which are proven on a wide range of organic wastes, including:

- Kitchen and garden waste
- Food waste from catering or manufacturing companies
- Source segregated MSW (Municipal Solid Waste)
- Green waste
- Category 3 ABP (Animal By-Product) Waste



## Anaerobic Digestion

AD plant and equipment designed and manufactured by UTS Biogas is in operation in more than 1,500 European facilities. UTS has harnessed 17 years' experience to create turnkey solutions that offer:

- High biogas yields
- Stable plant operation
- Tolerance of variations in feedstocks
- Mixed flow design for effective process optimisation
- Effective biological desulphurisation
- Negligible odour emissions
- Easy servicing without compromising output
- Patented safety features
- Flexible, modular design with upgrade possibilities
- Minimum downtime, maximum output
- Biological support services
- PLC controlled and monitored plants with remote monitoring facilities
- Aesthetically pleasing designs
- Controlled feedstock dosing for optimum process operation

**The modular design of TEG's IVC and AD technology makes our systems fully scalable and adaptable to increase capacity at a later stage, should future needs arise.**

## In Vessel Composting

- The TEG IVC process is in operation across a network of UK sites which are validated to the ABP (Animal By-Product) Regulations and certified to the BSI PAS 100 QP Standard.
- The continuous operation of the composting process produces minimal leachate and virtually no emissions.
- There is no forced aeration, turning or agitation during the single pass composting process, resulting in low energy demand.
- Automation provides a low labour requirement.
- Continuous temperature monitoring and sophisticated warning systems ensure the optimum working environment is maintained at all times, guaranteeing a pathogen-free product which is stable and easy to store and handle.
- The system's modular design enables TEG to provide a flexible and cost effective solution across a wide range of process capacities from less than 5 to more than 50ktpa.

**A recent study showed that a TEG composting operation has a carbon footprint of less than 1/10th of that for landfill.**

# Why TEG?

TEG offers a flexible service which enables our customers to select the approach that best fits their individual requirements. We can offer any or all of the following:

- Site feasibility studies
- Design
- Planning
- Licensing
- Permits
- Financing
- Interim management of waste streams in TEG operated facilities
- Civil engineering
- Plant installation
- Commissioning
- On-going operational support
- Maintenance
- Marketing of
  - compost
  - digestate
  - heat
  - electricity

We have worked with a large number of local authorities, waste management companies and food industry enterprises to develop facilities that best suit their geographical locations, environmental considerations and practical requirements. What they all have in common is access to TEG's award winning standards and technologies.



## Our Collaborative Partners

**UTS** is a market leader in AD technology with an impressive track record of facilities throughout Europe, having constructed more than 90 turnkey AD plants and supplied equipment into 1,500 AD facilities over a period of 17 years. UTS has a strong record in the development of facilities processing food and catering waste, a feedstock that will be used in many new AD facilities in the UK.

**Alkane** is an experienced gas-to-energy company that designs, installs and operates pipework, monitoring systems, gas treatment and upgrade plant, Combined Heat and Power (CHP) systems and grid connections so that the gas produced from AD can be used competitively and sustainably. Alkane also brings a wealth of expertise in securing long and short term contracts in the energy markets.

**NOFCO** provides a full range of services to market the high quality compost and digestate products manufactured using TEG's technology. The NOFCO team provides expert knowledge and advice on all aspects of compost and digestate use in sectors including agriculture, horticulture, land remediation and restoration and landscaping.

**The flexibility and robustness of our technologies coupled with our success in timely, on-budget project delivery has made TEG a bankable technology partner for both public and private sector clients.**

