

effective



The Advanced **New Earth Solutions** Waste Treatment and Resource Recovery System

With a design, build, finance and operate capability, New Earth Solutions is able to provide **effective** systems for both source segregated organic and residual waste streams; partnering local authorities in achieving high rates of recycling and complying with their landfill allowance allocation.

On completion, stabilised material is graded to produce a range of products, then stored in atmosphere-controlled buildings to await laboratory analysis



The entire New Earth Solutions process is fully enclosed and underpinned by proven biological treatment technologies, treating biodegradable municipal waste from both segregated and residual waste collection schemes. Authorised by Defra's Animal Health Department under Animal By-Product Regulations (ABPR), the system processes organic wastes to stringent regulatory standards; producing high quality products that conform with the requirements of BSI PAS100:2005, and achieving impressive rates of

recovery for non biodegradable, recyclable materials. Each batch of waste is identified by means of a unique batch labelling protocol, for which the process software records comprehensive data – accurately demonstrating the attainment of all operational and regulatory parameters, while maintaining aerobic conditions and ensuring the removal of the odours and bio aerosols associated with more traditional composting techniques. On arrival, waste is shredded and screened to remove non-

biodegradable material. It then enters the biostabilisation hall, where wireless monitoring probes are inserted. Readings taken are used to activate aeration fans that ensure optimum oxygen levels are maintained and control the addition of water via an overhead irrigation system. Supplementing the aeration treatment, the batches are agitated by the UNI 4001 turning machine, which facilitates complete exposure to the high sanitisation temperatures required. In order to comply with

ABPR 2005, New Earth Solutions facilities utilise a two-barrier process. On completion, stabilised material is removed for grading in order to produce a range of products, then stored in atmosphere-controlled buildings during maturation, where it undergoes laboratory testing prior to dispatch.

the process

Wireless monitoring probes are inserted along the length of a batch. These probes relay operational conditions to the central process computer



- **Proven Technology**
- **Designed Specifically for UK Applications**
- **Accelerated Bio-Stabilisation Process**
- **Automated Process Management**
- **Emissions Control and Treatment**



Unique batch labelling ensures full traceability for both segregated and residual waste streams

Products are proven fit for a range of purposes and conform with BSI PAS100:2005 requirements

The UNI 4001 agitator complements aeration to facilitate exposure to necessary temperatures



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