

Safe and Sound Recycling

There are times when equipment becomes faulty beyond economical repair or no longer holds commercial value. In these circumstances it can be a concern for clients who want to ensure any equipment originating from them is safely and soundly recycled. Illustrated below is an explanation of the disposal/recycling process to dispel any fears that clients may have.

All Used Electrical and Electronic Equipment (UEEE) received at the central warehouse are labelled with a unique identifier and undergo a testing process to ensure the equipment is safe and functioning as originally intended. Equipment capable of holding data can be wiped to HMG IA Standard No 5 or higher in accordance with customer requirements. When the items pass the testing process they emerge as Reuse Electrical and Electronic Equipment (REEE) and become available for sale. Items that fail the testing process, cannot be economically repaired or are determined to have no commercial value are declared Waste Electrical and Electronic Equipment (WEEE) and passed for disposal. In our WEEE processing area the items are treated and segregated into different waste streams such as circuit boards, processors, memory, hard disk drives, cables, computer shells etc.

The treated waste streams are sent via dedicated vehicles to Universal Recycling for further treatment and to be made available as raw material.



The WEEE is offloaded at the Universal Recycling premises ready to be fed into their state of the art WEEE recycling plant. The equipment then undergoes several gradual refining processes where the items are shredded and completely destroyed beyond any thoughts of repair; ensuring data is irretrievable whatever the sophistication of recovery equipment. The metallic, plastic and ferrous particles are separated and refined until suitably ready for onward processing as raw materials such as copper, steel, aluminium, precious metals, plastic etc.

WEEE that looked like this



After the first cut looks like this



Then further refinement takes place to separate the different particles into their raw material type such as . . .



Ferrous



Copper



Plastic

The dust and particles created during the shredding and refinement process is extracted from the air and compacted to produce dust cakes. These can be used as a fuel source.



Photographs shown of sampled shredded and refined particles were taken by Tinglobal Limited staff with kind permission of Universal Recycling during a visit to the WEEE recycling plant to evaluate the recycling process. © Tinglobal Limited 2011 All Rights Reserved.



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