

What happens to my non-recyclables?



printwaste
Sustainable Recycling

Waste-to-Energy step-by-step.



Step 1: Collection

We'll collect your non-recyclables and transport them back to our recycling facility for holding, until we have enough to send on to a Waste-to-Energy plant.

Step 2: Combustion

Once at the plant, your non-recyclables will be loaded into an inclined moving grate and burned at a minimum of 850°C, producing two materials in the process: hot flue gases and ash.

Step 3: Creating electricity

The hot flue gases will travel through a boiler, converting water in the boiler into steam. The steam will then drive a turbine, which, in turn, will drive a generator and produce electricity.

Step 4: Cleaning flue gases

After helping to create electricity, the flue gases will be filtered and cleaned to reduce acidity and remove any possible pollutants.

Step 5: Recycling the by-product

Meanwhile, the ash will be collected, cooled and passed under a magnet to extract any ferrous metals for recycling into new products. The leftover ash, called Incinerator Bottom Ash (IBA), will be sent on to a specialist reprocessing centre, where the non-ferrous metals will be separated from the ash and recycled, and the ash will be used in construction.



Did you know? For every 1100L bin of your non-recyclables, we can help you generate enough energy to produce 4,200 cups of tea or coffee!

We hope you found this useful & informative.

If you did, you'll be happy to know we have a whole bunch of process sheets for you...

Recycling process sheets



Cans



Cardboard



Cartons



Paper cups



Glass



Wood



Plastics



Paper



Fluorescent
light tubes



WEEE



Polystyrene



Tins



Non-recyclables

Confidential shredding process sheets



Uniforms & clothing



Hard drives



Confidential paper

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