Allerton Waste Recovery Park

We all create waste.

Recycling rates are increasing, but we still need to make sure we get the very best from what's left over. Allerton Waste Recovery Park will ensure this happens.

A new, integrated materials and energy recovery facility is being proposed for York and North Yorkshire.

Allerton Waste Recovery Park will treat York and North Yorkshire's domestic "black bag" waste which is left over after kerbside recycling. It will ensure even more materials are extracted for recycling, will generate renewable energy from food waste and minimise the amount of rubbish being sent to landfill.

Allerton Waste Recovery Park will be built on an existing landfill, quarry and concrete production site next to the A1. Different technologies will be used at the facility, including a Mechanical Treatment plant to extract recyclable materials and an Anaerobic Digester to generate renewable energy from food waste.

An Energy Recovery Plant will generate electricity from the waste that cannot be recycled, with residue from the plant being converted into construction materials.

As well as making the most of York and North Yorkshire's rubbish, Allerton Waste Recovery Park will include a visitor and education centre.

Households in York and North Yorkshire produce more than 470,000 tonnes of rubbish each year. Recycling rates have increased, thanks to the considerable efforts of residents making good use of services and facilities provided by their local councils.

However, there is still a lot of leftover waste. At the moment that all gets buried in landfill sites but tough targets, fines and increases in landfill tax mean that we need to change the way in which we manage waste.

What we throw away is a resource. A typical domestic bin still contains materials than can be recycled or digested, while the rest contains valuable energy that can be recovered and use to create electricity.

Allerton Waste Recovery Park is being developed by AmeyCespa, which is working with North Yorkshire County Council and City of York Council.

Allerton Waste Recovery Park will help the people of York and North Yorkshire reduce the amount of waste sent to landfill, in turn helping local council to meet their targets and avoid fines and increased taxes.

The existing Allerton landfill and quarry site

Every year Allerton Waste Recovery Park will:

- Extract a minimum of 20,000 tonnes of materials that can be recycled which would have otherwise been sent to landfill
- Process 40,000 tonnes of food and organic waste to generate renewable energy
- Create at least 50,000 tonnes of construction aggregates, avoiding landfill costs and quarrying of materials
- Generate 24 MW of electricity – enough to power 40,000 homes*
- Save at least 90% of York and North Yorkshire's waste from going to landfill.
- In addition, it will create up to 70 long-term jobs and support training through a partnership with local colleges

* Based on Office of National Statistics Data for the region.

What happens to our waste?

Current waste cycle.
Allerton Waste Recovery Park waste cycle.

1

Waste is generated in lots of ways, from food packaging to the tidying up you do in your garden.

2

Households in York and North Yorkshire produce 470,000 tonnes of waste every year.

3

Some of this waste is recycled via kerbside collections but, even after recycling, half of this household waste still ends up in landfill.

4

Landfill is costly and not environmentally friendly. Thanks to the recycling and reuse of waste at Allerton Waste Recovery Park, only a small fraction of York and North Yorkshire's waste will end up in landfill.

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4

Allerton Waste Recovery Park can make better use of York and North Yorkshire's waste and massively reduce the amount going to landfill.

5

Allerton Waste Recovery Park will accept the household "black bag" waste that is normally sent to landfill. Each year around 20,000 tonnes of recyclable materials, including plastics and metals, will be extracted from this waste. This means they can then be reprocessed into new products.

The remaining untreatable waste will be used as fuel for the energy recovery facility. The facility could generate enough renewable energy to power 40,000 homes*. Even the ash residue will be used to create construction materials.

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All food and organic waste (including food scraps, garden clippings and tea bags) will be put through an Anaerobic Digester. The fully-enclosed digester will generate methane, which is captured and used to create renewable energy. Around 40,000 tonnes of waste will go through the Anaerobic Digester a year.

*Based on Office of National Statistics Data for the region.