

---

## Energy from Waste

---

A new way of  
managing waste and  
generating power

FLASH PYROLYSIS@YORWASTE

**Yorwaste is building a revolutionary power plant at Seamer Carr, near Scarborough in North Yorkshire, to generate electricity and heat from domestic rubbish.**

The advanced technology project is being developed as part of the New Technology Demonstration Programme run by the Department for Environment, Farming and Rural Affairs (Defra) and is being largely funded by Defra, private investors and Yorkshire Forward, the regional development agency.

The project involves the use of the most advanced flash pyrolysis technology to convert the non-recyclable element of domestic rubbish into a gas that can then be used as fuel for a power generation engine. The facility at Seamer Carr, is believed to be the first of its kind in the world. It is designed to process approximately 18,000 tonnes per annum of bio-degradable municipal waste into fuel, which will in turn be converted into a synthesis gas (Syngas) that has similar characteristics to natural gas. This gas will be used as fuel to generate more than 2 MW of electricity – enough for more than 2,000 homes.



### Electricity from landfill gas

Our sites in York, Scarborough & Scorton have facilities to capture landfill gas & generate electricity. The methane gas is captured from wells across the sites, filtered into manifolds and fed down to an energy plant. The plants produce about 6 MW to the national grid. Under optimum conditions, one tonne of waste can produce up to 150-200 cubic metres of gas.

Methane is a greenhouse gas that is considered to be 21 times more powerful than carbon dioxide. Its recovery and utilisation from landfill sites therefore reduces methane emissions as well as off-setting the use of electricity generated



### Contact information

Yorwaste Ltd  
Mount View, Standard Way  
Northallerton DL6 2YD

T : 01609 774400  
F : 01609 772327  
E : [info@yorwaste.co.uk](mailto:info@yorwaste.co.uk)

**Speak to an adviser : 0845 3008889**  
[www.yorwaste.co.uk](http://www.yorwaste.co.uk)