

WELCOME AND THANK YOU FOR COMING

SITA UK is holding this exhibition for residents to find out more about our plans to develop an anaerobic digestion facility at our Packington site.

The development of the anaerobic digestion facility would provide the region with a sustainable means of waste disposal and continue the site's contribution to the production of renewable energy.

SITA UK has a long history at Packington. For over 40 years the site has been a centre for waste management. For 20 of those years, the site has generated energy from the landfill gas and this will continue for many more years.

ABOUT SITA UK

SITA UK is one of the country's leading recycling and resource management companies. We manage recycling and waste for local authorities and businesses across the country. The company was established in 1988 and employs over 6,000 staff in the UK.

In the UK, we serve over 12 million people and over 40,000 businesses.



WHAT WE ARE PLANNING

SITA UK is proposing to develop an anaerobic digestion facility which would treat 50,000 tonnes of organic waste, such as food and green garden waste. The plans also include the development of polytunnels, which could use both the heat and the compost produced at the facility. These polytunnels could be used by local growers and community groups.

WHAT WOULD THE FACILITY DELIVER?

- » The anaerobic digestion facility would recover value from waste in the form of renewable electricity and heat.
- » The facility would be self-sufficient in terms of energy needs with both electricity and heat being reused in the process.
- » Surplus renewable electricity would be supplied to the National Grid.
- » Heat would be reused within the digestion process and could be used in neighbouring operations such as the landfill leachate treatment facility and proposed polytunnels.
- » The facility would also produce a compost and liquid digestate which could be used as an alternative fertiliser and peat replacement compost.



WHY DO WE NEED THIS FACILITY AT PACKINGTON?

Traditionally the UK has sent most of its wastes to landfill. However, under the EU Landfill Directive, the UK is obligated to reduce the amount of biodegradable municipal waste sent to landfill. Based on the amount of biodegradable municipal waste sent to landfill in 1995, the UK must reduce this to 50 per cent by 2013 and to 35 per cent by 2020. This coupled with landfill tax rising at the rate of £8 per tonne each year – to a current limit of £72 per tonne in 2013 – means we need to find alternatives to landfill.

For this reason, local authorities like Warwickshire, the UK Government and waste management companies have started to look at different ways of managing waste.

The anaerobic digestion facility proposed for Packington would have the benefit of providing renewable energy, meaning the site would be self-sufficient for heat and power.

The facility would also provide local authorities in close proximity to the site with a sustainable route of disposal for organic waste, such as food and green garden waste.



WHAT WASTE WOULD THE FACILITY TREAT?

The Packington facility would be designed to accept organic waste (such as food and green garden waste) in any form – whether co-mingled or separately collected – from the surrounding area.

It is anticipated that around 80 per cent of the total waste inputs into the site would be derived locally from household waste collections that local authorities are planning to undertake. We envisage that the remaining 20 per cent of inputs would be dedicated to commercial collections of food wastes from restaurants, pubs, hotels and schools or out-of-date and spoiled foods from supermarkets and retailers.

“This [anaerobic digestion] offers a local, environmentally sound option for waste management which helps us divert waste from landfill, reduce greenhouse gas emissions and produce renewable energy which could be used to power our homes and vehicles. Farmers and gardeners can also benefit from the fertiliser produced, returning valuable nutrients to the land.”

– Defra, *Anaerobic Digestion Strategy and Action Plan, 2011*



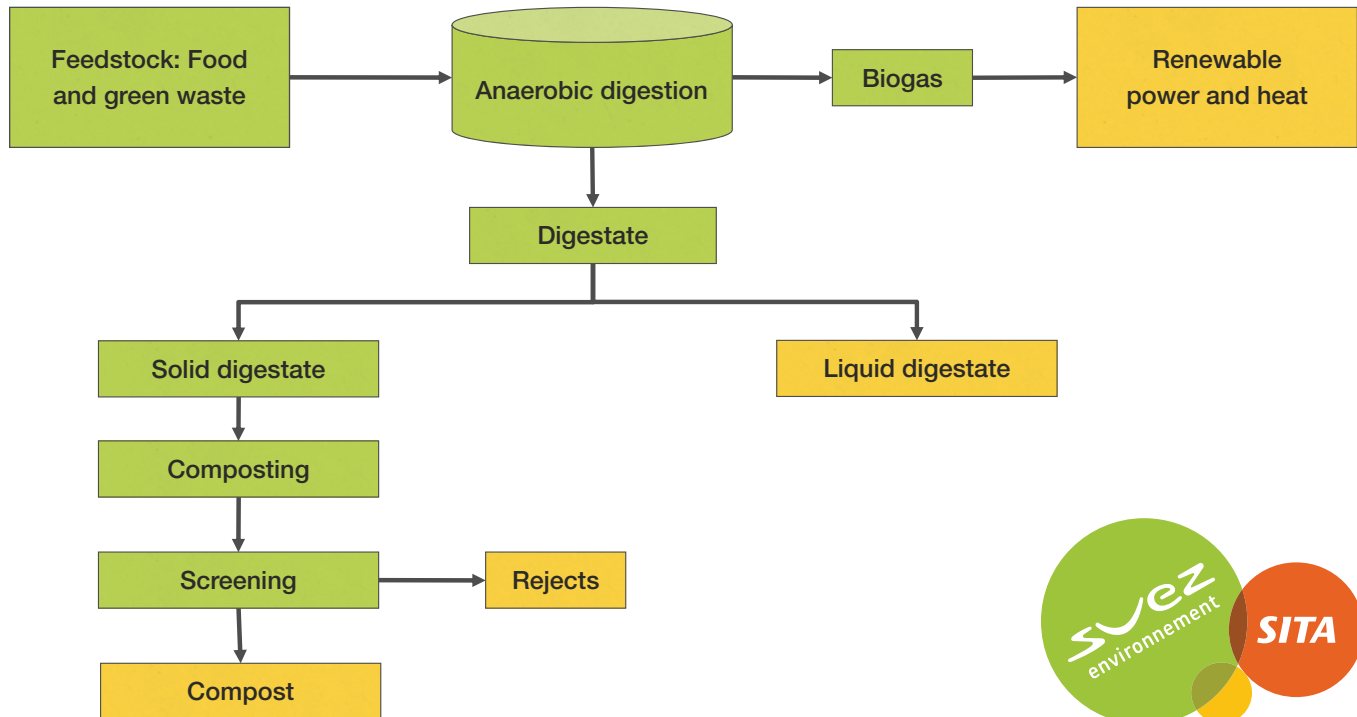
WHAT IS ANAEROBIC DIGESTION?

Anaerobic digestion is a process in which biodegradable material – such as organic waste, like food and green garden waste – is broken down by micro organisms in sealed, airtight containers in the absence of oxygen.

We are proposing to use a dry anaerobic digestion technology, which is where food waste is mixed with dry green waste and processed through the anaerobic digestion facility.

The technology itself, which would be provided by STRABAG, has been used in a number of similar facilities in continental Europe since the 1990's and is well proven with over 40 organic treatment facilities built worldwide.

The process produces biogas – which can be converted into renewable energy and heat – and digestate in solid and liquid state, which is the mass left over when processing is complete.



RESPECTING THE ENVIRONMENT



As part of the planning application SITA UK will be undertaking an Environmental Impact Assessment, which will examine the potential for any environmental impact that the facility may have and any mitigation measures which are required.

This assessment will look at the processes to be carried out at the facility and the measures that SITA UK will put in place to ensure that all our activities respect the environment.

TRAFFIC

The surrounding road network – including the M6 and M42 motorways and A45 dual carriageway – would be the primary routes to the site for the majority of customers, whilst the A446 would provide access to the site for all waste vehicles associated with the proposed anaerobic digestion development.

We have undertaken an assessment for the proposed traffic movement for the development. This demonstrates that the daily operational traffic levels would be just 50 per cent of the current landfill operation. Once the landfill is no longer operating and is restored, the anaerobic digestion facility would be expected to generate 180 vehicle movements per day and traffic levels for the site would be just 35 per cent of current movements.

MANAGING NOISE AND ODOUR

All operations associated with our proposal – including waste delivery, storage, processing and composting – would be carried out in enclosed buildings. The facility would be kept under negative pressure and equipped with fast acting roller shutter doors to minimise the release of odours.

Additionally, all of the large containers within which the process takes place are sealed. This would ensure that emissions are strictly controlled by the design of the process.

All air outputs would be treated in a state-of-the-art odour scrubber before being discharged.

LOCATION

As part of our development works, we have assessed over 200 sites within the service area and the Packington location was selected as the best available site based on a number of planning and property criteria.

Our assessments and work undertaken for our proposal have demonstrated there would be no impact on the local amenity and no discernable landscape or visual impact.



WHAT WOULD THE FACILITY LOOK LIKE?

The anaerobic digestion facility would be sustainably designed to blend in with its surroundings.



WHAT WOULD THE FACILITY LOOK LIKE?

Views from Packington Lane



BENEFITS TO THE LOCAL COMMUNITY

The proposed development would have a number of benefits for the local community:

- ✓ To complement our existing energy production from the site, biodegradable waste would be diverted from landfill and converted into renewable power, heat and fertiliser.
- ✓ The fertiliser and compost would be made available to local schools and the public.
- ✓ The site would be self-sufficient in terms of energy for heating and the operation of other facilities on the site like the leachate treatment facility.

- ✓ Polytunnels on site could be used by local growers. These would use heat and compost generated by the anaerobic digestion facility.
- ✓ MWH Global – who have a local office in Coleshill – would oversee the construction of the facility, encouraging local professional job growth as part of the development.



DEVELOPMENT AND RESTORATION PLANS

Packington landfill will be restored to a varied arable, agricultural, heathland and neutral grassland with a series of footpaths going across the site joining the adjacent public footpath.

The proposed anaerobic digestion facility would be well screened. Trees which would need to be removed as part of the construction of the development would be replaced by two and a half times the amount with either like-for-like or an improved quality.



WHAT HAPPENS NEXT

We plan to submit our planning application to Warwickshire County Council in November 2011.

SITA UK works hard to be a good neighbour and we are committed to delivering an open and inclusive community engagement programme. If you have any questions following this exhibition, please email us at packington@sita.co.uk or call us on **01628 513217**.

HAVE YOUR SAY

Thank you for taking the time to visit us today. We hope you found this exhibition useful and feel better informed about our proposals.

In order for us to record your views, we'd be grateful if you would complete a feedback questionnaire and post it in one of the comments boxes provided.

The information you provide will be taken into account as we finalise our proposals. Your details will not be passed onto third parties and will be kept in accordance with data protection legislation.

