

LEARN MORE ABOUT NEW WASTE FACILITIES PLANNED FOR **DERBYSHIRE**



COME ALONG TO OUR PUBLIC INFORMATION DAYS

- 🗓 9th March 2009
- 🗓 11th March 2009
- 🗓 16th March 2009
- 🗓 17th March 2009

Please see back page
for further details

**Resource Recovery Solutions (Derbyshire) Ltd is a partnership between
United Utilities and Interserve**

New waste facilities planned for Derbyshire

In Derby City and Derbyshire, over 530,000 tonnes of municipal waste is collected each year. In 2007/08, more than 295,000 tonnes was sent to landfill – which is not environmentally or financially sustainable. Reducing, reusing and recycling is an important part of managing Derby and Derbyshire’s waste sustainably, but not all waste can be managed in this way. Therefore, additional facilities are needed to reduce the amount of residual waste being sent to landfill. Against this background, the Councils tendered for bidders to take forward a joint waste management contract.

Resource Recovery Solutions (Derbyshire) Ltd (RRS), a partnership between United Utilities and Interserve, was recently selected as the preferred bidder by Derby City Council and Derbyshire County Council to take the joint waste management contract forward. The 27 year contract will see RRS investing £500 million in Derby and Derbyshire. This contract is not a Private Finance Initiative (PFI).

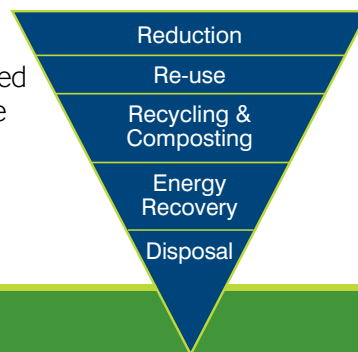
RRS is looking to develop:

- A new Waste Treatment Facility and Visitor and Education Centre at Sinfin Lane, Derby
- A new Waste Transfer Station at Clover Nook, Alfreton, Derbyshire
- A temporary Waste Transfer Station at Magfern’s Yard, Downing Road, Derby

A future Waste Transfer Station is also planned for Chesterfield. This will be subject to a separate planning application and stakeholder and community engagement process.

RRS will be managing the Household Waste Recycling Centres across Derby and Derbyshire and future waste management facilities will be developed jointly by the Councils and RRS.

RRS will work with the Councils to minimise the amount of waste produced and to encourage households to recycle. This is demonstrated by the waste hierarchy diagram opposite.



The Waste Hierarchy

Sinfin Lane • Derby

A state-of-the-art recycling and treatment facility is proposed at Sinfin Lane in Derby. It will accept up to 200,000 tonnes of waste per year from Derby City and Derbyshire.

What exactly is proposed?

The new waste treatment facility will include:

- A Waste Treatment Facility Reception and Recycling Hall to store and sort waste received to the site
- A Mechanical Biological Treatment (MBT) facility which creates Refuse Derived Fuel (RDF)
- An Advanced Conversion Technology (ACT) facility which converts the RDF into energy
- A Visitor and Education Centre which will give local schools and members of the public the opportunity to learn more about waste management

This contract does not include collecting, managing or receiving recyclables from kerbside collections or recycling banks, which will be unaffected by these proposals. These recycling services will continue to be expanded by the Councils and sent to the normal recycling processors.



Sinfin Lane • Derby

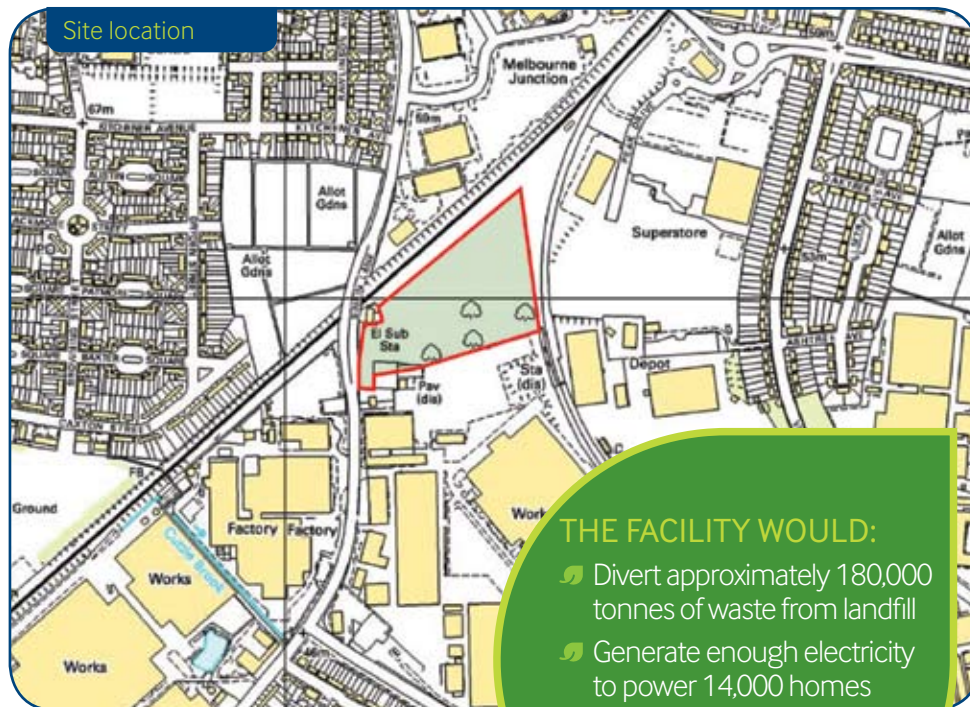
The site

The site is located approximately 3km (1.9 miles) to the south of Derby City Centre.

The site covers an area of 3.4 hectares (8.34 acres) and is undeveloped following the demolition of the previous tannery buildings that occupied the brownfield site.

RRS undertook an appraisal of potential sites in the area, with Sinfin Lane being identified as the most appropriate. The site has been chosen because it is available, it is not at risk from flooding and is of sufficient size to accommodate the facility.

In addition, the site has good connections to the local highways and is identified as a site suitable for waste development in the Local Plan.



THE FACILITY WOULD:

- Divert approximately 180,000 tonnes of waste from landfill
- Generate enough electricity to power 14,000 homes
- Create 38 operational jobs and 60 to 80 local construction jobs

Mechanical Biological Treatment (MBT)

The Mechanical Biological Treatment (MBT) facility, which will recover recyclables and prepare renewable fuel, will be capable of processing approximately 60,000 tonnes of waste per year.

- **Step 1** 'Black bag' rubbish is delivered to the waste reception hall, where cranes will remove large recyclables and non-processible objects
- **Step 2** The material is then dried for a period of around two weeks. This treats the waste by stabilising it using natural biological processes
- **Step 3** Dried waste is screened and further items are removed for recycling such as stones, glass and metals. The remaining materials, known as Refuse Derived Fuel, is then mixed with non-recyclable, non-hazardous household waste to create a Mixed Waste Fuel, which can then be used in the ACT facility to generate renewable electricity

The proposed partner for the MBT process, Entsorga, has a number of similar schemes operating, or in development, within Europe. A major new facility is planned for Wiltshire and another facility in Celja, Slovenia has recently started to receive and treat waste.

Advanced Conversion Technology (ACT)

The ENERGOS Advanced Conversion Technology (ACT) facility uses a patented gasification process to recover energy from the Mixed Waste Fuel. It will have a maximum capacity of 140,000 tonnes of waste per year.

- The facility uses a gasification process which generates an energy-rich syngas from the prepared fuel under strictly controlled conditions
- The syngas produced is collected and used as a fuel to generate steam in high efficiency traditional boilers
- This steam is then used to generate renewable electricity which is supplied to the local grid
- The inert ash left over from the gasification process will be used as an aggregate replacement in concrete block manufacture
- The state-of-the-art gasification technology turns waste to energy in an efficient and environmentally friendly process
- Emissions from the ENERGOS process are significantly lower than EU limits
- The ENERGOS technology was specifically selected by Resource Recovery Solutions due to its proven track record

ENERGOS, the proposed partner for the ACT process, has seven plants operating in Europe, similar to those proposed at Sinfin Lane, including the Isle of Wight in the UK, Scandinavia and Germany. ENERGOS waste management facilities are planned in several locations across the UK, including Ayrshire, Merseyside and North Lincolnshire.

Protecting Local People and the Environment

Traffic and transport

The planning application will be accompanied by a full Transport Assessment (TA) which is currently being undertaken. Current figures show that the new development would lead to an increase in traffic of around 3%, which the local network can easily accommodate. RRS is also proposing infrastructure improvements, including a new traffic junction.

Air quality

Emissions from modern waste management facilities are strictly regulated by the Environment Agency and will be tightly controlled and monitored by the permit to operate. The emissions predicted by Resource Recovery Solutions (Derbyshire) Ltd will be significantly below the permitted levels. Energos ACT technology has proven emissions performance.

Visual impact

Landscaping will be used throughout the development to reduce the visual impact of the proposal.

Odour

All areas of the facility will be designed to minimise odours and any odour will be strictly controlled. Waste will be delivered by covered vehicles into an enclosed reception area before being processed.

All processes will operate in a fully enclosed, purpose-built facility. The proposed new waste treatment facility will operate under a negative pressure system to prevent odour e.g. as doors open, air is sucked in to prevent odour escaping. In addition, a substantial bio-filter is proposed to manage the flow of air around the facility.

Sustainability

Managing waste in this way will help towards combating climate change by diverting waste from landfill, recycling more waste, reducing waste transport movements and generating energy. This could have the overall impact of saving over 48,000 tonnes of CO₂ (as calculated by the Environment Agency's WRATE tool).

Waste Transfer Station, Magfern's Yard • Derby

Resource Recovery Solutions (Derbyshire) Ltd's delivery of new waste management facilities for Derbyshire will be phased. An initial Waste Transfer Station is proposed at Magfern's Yard, West Meadows Industrial Estate on Downing Road in Derby. The proposals for the Magfern's Yard development are required for a temporary period of about 2 years whilst the Sinfin Lane facility is being built.

The Waste Transfer Station will be used to transfer waste collected from refuse collection vehicles onto bigger vehicles for onward disposal to landfill. The facility will accept up to 110,000 tonnes of 'black bag' rubbish per year.

The facility will create 3 jobs.

What exactly is proposed?

The facility will include:

- a new free-standing waste handling building
- a weighbridge
- a new gatehouse
- the retention of the existing separate office/facilities building
- the retention of the existing vehicle delivery areas and car parking areas

The site

The site is located on the West Meadows Industrial Estate to the south east of Derby City Centre and covers an area of 0.4 hectares (0.99 acres). The site currently operates as a Waste Transfer Station and is located close to where waste is produced.

Traffic and transport

The planning application will be accompanied by a full Transport Assessment (TA) which is currently being undertaken. It is anticipated that there will be around 89 traffic movements to the site per day. The existing access from Downing Road will be used to access the site.

Waste Transfer Station, Clover Nook • Derbyshire

A new Waste Transfer Station is proposed on Clover Nook Industrial Park, Grange Close, Alfreton, Derbyshire.

The Waste Transfer Station will be used to transfer waste collected from refuse collection vehicles for onwards disposal to Sinfin Lane. The facility will accept up to 50,000 tonnes of waste per year and will also provide employment opportunities for 3 local people.

What exactly is proposed?

The facility will include:

- a new waste handling building
- a weighbridge
- sufficient purpose-built storage to hold 4 average days inputs
- offloading areas for gully waste for dewatering, road sweepings, street cleansing and a steel container to store low hazardous clinical waste
- in-built safety systems to ensure that risks associated with on site traffic movements and tipping are eliminated

The site

The site is located to the south east of Alfreton approximately 0.4km away from the A38, which links the site to the M1 at Junction 28. The site covers an area of approximately 1.2 hectares (2.97 acres) and is currently vacant.

The site already has planning permission for a waste facility.

Traffic and transport

The planning application will be accompanied by a full Transport Assessment (TA) which is currently being undertaken. It is anticipated that there will be around 54 traffic movements to the site per day. A new access junction onto Grange Close will be constructed. Full details will be outlined in the Transport Assessment.

Who is Resource Recovery Solutions (Derbyshire) Ltd?

Resource Recovery Solutions (Derbyshire) Ltd is a partnership between United Utilities and Interserve.

United Utilities is the UK's largest listed water company. United Utilities owns, operates and maintains utility assets including water, wastewater, electricity and gas. United Utilities is a UK FTSE 100 company, has a turnover of £2bn and is the UK's market leader in utility outsourcing. United Utilities operates a highly successful multi-utility connection business, manages metering contracts and is using its engineering and operating skills in emerging markets such as Municipal Solid Waste.

United Utilities provides services to over 20m people worldwide – across Europe, the Middle East, Australia and the Philippines.

Interserve is a services, maintenance and building group operating in the public and private sectors, both in the UK and internationally. The company offers advice, design, construction and facilities management services for society's infrastructure and provides a range of plant and equipment in specialist fields.



To find out more about Resource Recovery Solutions log on to:
www.resourcerecoveryolutions.co.uk

What happens next?

Before we submit planning applications for the three sites we will be informing residents and interested parties on the proposals.

Public information days

The public information days listed on the back of this newsletter will allow you to find out more about our proposals.

Community Liaison Group

We are also establishing a Community Liaison Group in Derby made up of elected members and representatives from local Neighbourhood Boards. Neighbourhood Board members are elected by the local Neighbourhood Forums to represent the wider community's views. If you would like to contribute your views to the Community Liaison Group you should contact your local Neighbourhood Forum.

All comments and feedback will be registered and included in Stakeholder Engagement Reports, which will accompany each planning application. This will inform the relevant Council of how we have involved and informed stakeholders and interested parties on our proposals.

Following this, and after the applications have been submitted, you will be able to comment on each proposal directly to Derby City Council and Derbyshire County Council, who will undertake their own formal consultation as part of the planning process.

The table below outlines the expected timescales for each application.

Site	Public engagement	Application to be submitted	Expected determination	Facility opens
Sinfin Lane	March 2009	April 2009	Summer 2009	Phase 1 – Oct 2011 Phase 2 – June 2012
Magfern's Yard	March 2009	April 2009	Summer 2009	April 2010
Clover Nook	March 2009	April 2009	Summer 2009	April 2010

How can I find out more?



We want your views and comments on our proposals for Derby and Derbyshire.

VISIT US

Come along to our public information days

9th March 2009, 12-7pm

Derby Assembly Rooms,
Market Place, Derby DE1 3AH

11th March 2009, 12-7pm

The Family Centre,
St Stephen's Church, Sinfin Lane,
Derby DE24 9GP

16th March 2009, 12-7pm

Genesis Centre, 32-46 King Street,
Alfreton DE55 7DQ

17th March 2009, 2-9pm

Sinfin Moor Social Club,
Arleston Lane, Stenson Fields,
Derby DE24 3DH

If you require this newsletter in an alternative format, e.g. audio tape, large print or another language, please contact us.

PHONE US*

(Please note calls to this number are FREE)

Call our community information line on **FREEPHONE 0800 1303 505** during office hours. (9am-5.30pm, Monday-Friday)

WRITE TO US

(Please note: no stamp is needed on your letter)

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* These contact details will put you in touch with PPS, who are managing the public information programme on behalf of Resource Recovery Solutions (Derbyshire) Ltd

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