

Update

New waste facility at **Manvers**

Summer 2011

Let us know your views!
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Barnsley, Doncaster and Rotherham Councils together formed the BDR Waste Partnership to find a sustainable solution to the problem of dealing with your rubbish.

At drop-in sessions held by BDR last year, residents said they wanted more information on the waste project in a newsletter delivered through their door. This is to update you on proposals for a new facility at Manvers to deal with left over household waste.

Plans for a new MBT plant to deal with household waste

Stephen Ray, Shanks Director, said:

'We are delighted to have been chosen by BDR to deal with their left-over waste. We look forward to meeting local people to discuss our proposals. We believe the scheme we are putting forward with our partners Scottish and Southern Energy will provide a cost-effective and sustainable solution for dealing with the area's waste.'

3SE is a partnership between Shanks Group plc and Scottish and Southern Energy plc which has been chosen by BDR to handle its waste contract. 3SE put forward a proposal using three sites – Bolton Road at Manvers in Rotherham, Grange Lane transfer station in Barnsley and Ferrybridge Power Station in West Yorkshire.

3SE is proposing to develop a Mechanical Biological Treatment plant (MBT) with an Anaerobic Digestion (AD) plant at the site at Bolton Road, Manvers. Doncaster and Rotherham's refuse collection vehicles will deliver waste direct to Bolton Road.

Most of Barnsley Council's refuse collection vehicles will deposit their loads at Grange Lane Transfer Station where the waste will be held in bulk before it goes to the MBT plant in larger vehicles. This considerably reduces the number of journeys and the impact on the environment. Waste collected from towns in Barnsley near to the site will deliver waste directly to Bolton Road.

After the waste has been treated at the MBT plant an end-product called Solid Recovered Fuel (SRF) is produced. This is dried waste which has been reduced in volume and has had some useful materials removed from it for recycling.

It will be transported to a multi-fuel plant which Scottish and Southern Energy is proposing to build next to the coal-fired power station at Ferrybridge and used to generate electricity, saving the burning of fossil fuels.



An artist's impression of the proposed facility from the north east.

Planning application

The project is subject to obtaining planning permission. 3SE intends to submit a planning application for development of the MBT and AD plants to Rotherham Metropolitan Borough Council in Autumn 2011. This will be considered by the Council's Planning Board which is an independent committee separate from the waste partnership.

An environmental impact assessment of the proposals is being prepared and a full environmental statement will accompany the application. This will include traffic movements. It will describe the likely environmental effects of the proposed development and identify measures to mitigate them. Local people will be able to comment on the proposals once the planning application has been submitted.

3SE - background

Shanks have expertise in waste treatment and disposal. SSE is an energy provider. By joining together, the two companies are pooling their particular skills in order to provide an environmentally friendly method of disposing of BDR's residual waste which delivers value for money.

Why we need new waste plants

The UK has to find alternatives to landfill and to extract more value from waste and resources. All local authorities face Government targets to increase recycling and reduce waste going to landfill.

- 3SE is proposing to use tried and tested technology to treat BDR's left-over household waste.
- Waste will be recycled helping the three councils to meet and exceed recycling targets, through extracting recyclable materials such as glass and plastic from the MBT process.

The MBT Plant

The MBT plant would deal with up to 265,000 tonnes a year of left-over waste which would otherwise go to landfill from the three councils which make up the BDR partnership. This will be mainly household with some additional commercial waste (for example, from council facilities such as markets and restaurants).

The waste would be delivered by lorry. Lorry journeys will be planned to minimise the impact on local communities and the environment, using major roads rather than urban and country roads, wherever possible, using mainly off-peak times whenever possible.

An MBT plant works through a combination of mechanical sorting and biological composting of waste. It does not burn the waste.



An artist's impression of the proposed facility from the south west.

All waste will be handled inside the plant, which will operate under negative pressure. Any dust that is generated inside the facility will be drawn through the centre's air cleaning system, so it will not be released outside without being treated first.

The drying process takes between 12-15 days. The waste reduces in volume by over one-quarter and is then sorted and materials that can be recycled are removed.



The smallest waste produced from the MBT plant is called 'fines'. This is transferred under cover to the AD building next door, where it is fermented for four weeks. This produces methane gas which will be used to generate electricity to supply the Bolton Road site with the surplus being sold to the National Grid.

The MBT building would be 16m high (at its highest point), 213m long and 76m wide. The AD building would be 15m high, 88m long and 76m wide. It would also have an 18-metre chimney stack. The adjacent Next Warehouse is around 19m high.

Operations

The processes within the plants will operate 24 hours a day but vehicles will predominantly arrive and leave between set hours, probably 06.00-19.00 on weekdays, or 06.00-16.00 at weekends. Lorry journeys will be planned to avoid peak times where possible. The plant will not be noisy or smelly or produce dust, as operations will be fully enclosed, and activities such as the unloading of waste will take place inside.

It will operate under negative pressure, which means that air will be sucked in rather than going out, and will be used in the drying and treatment process. All air released to the atmosphere will first pass through bio-filters and the centre's dust extraction system, which stop smells and dust leaving the plant.



An artist's impression of the proposed facility from Bolton Road.

Dearne Valley Eco Park

3SE are fully supportive of the aims of the Dearne Valley Eco Vision. The 3SE proposal:

- Meets and exceeds recycling targets, extracting additional recyclates from the MBT process
- Produces a low carbon fuel as a fossil fuel replacement which also contributes to national energy targets and helps deliver the UK climate change programme
- Recovers and processes material which would otherwise be sent to landfill or combusted in Energy from Waste.
- Produces a minimal amount of material to be sent to landfill
- Cuts greenhouse gas emissions



'Councils can no longer keep on burying waste in holes in the ground. It produces methane which is 21 times more harmful as a greenhouse gas than carbon dioxide. There are also increasing financial penalties for councils which fail to meet tough new targets for reducing landfill. These costs would have to be borne by council taxpayers. That is why we have chosen 3SE to handle our waste contract.'

Cllr Richard Russell, Rotherham Borough Council, chairman of BDR Waste Partnership

Let us know what you think

Before submitting the planning application, 3SE is holding a series of exhibitions to give local residents the opportunity to find out more about the plans, discuss the proposals with members of the project team and to provide feedback. 3SE will then review all the comments received and feed them into the evolving plans. We will stay in touch with those who leave feedback at the exhibitions or provide contact details. You can also register an interest in updates via our website - see below.

Friday 15 July (3.00 pm - 7.30 pm) -

Montgomery Hall, Church Street, Wath upon Dearne, Rotherham S63 7RD

Saturday 16 July (11.00 am - 4.30 pm) -

Mexborough Resource Centre, Dolcliffe Road, Mexborough, Doncaster S64 9AZ

Saturday 23 July (12.00 pm - 4:00 pm) -

Dearne Advanced Learning Centre, Goldthorpe Road, Barnsley S63 9EW

If you have any questions about the scheme or would like further information, please contact Farah Pasha of **Green Issues Communiqué**, who are assisting in our consultation with local residents, on 020 7457 2833, or by email at bdr@greenissuescommunique.com.

You can also find out more about the project or leave comments via the BDR website: www.bdronline.co.uk. Information on the proposals will be posted on this website from Friday 15 July.



An artist's impression of the proposed facility from the north east.