

# NEW ENERGY RECOVERY FACILITY will Serve the District Heating Network

As part of the integrated waste management contract Onyx has submitted a planning application to Sheffield City Council for permission to replace the existing Energy Recovery Facility (ERF) located at Bernard Road with a new, modern plant. In line with government policy on combined heat and power, the ERF will allow more power to be generated and additional heat will be available to the award winning district heating network. By generating electricity and providing heat to the district heating network, a huge amount of fossil fuel is saved and a large amount of carbon dioxide is prevented from being released.

A state-of-the-art Energy Recovery Facility, with a design capacity of 225,000 tonnes a year, will be commissioned and housed entirely within a new building at the Bernard Road site. This increased capacity will help Onyx to provide a sustainable waste management service to Sheffield that fits within a waste hierarchy and meets targets set by the government as well as providing an efficient heat source to the city. The new plant is required to conform to more stringent European emission controls due to come into force during 2005.

Construction of the new plant, to be known as the Onyx Sheffield Energy Recovery Facility, is expected to take 33 months. The planning application will be considered in April and if we are successful construction will commence in October of this year. The new building will be constructed alongside the existing facility to ensure that heat can be provided and electricity generated from the current plant until it reaches the end of its useful life in 2005.

The new plant will be commissioned at the end of 2005 when the old plant will be demolished. Significant investment has been made to ensure that back up systems are in place in case the existing or new facility is unable to operate due to maintenance work or any other reason. These back up boilers will be used to ensure district heating customers receive a continuous service.

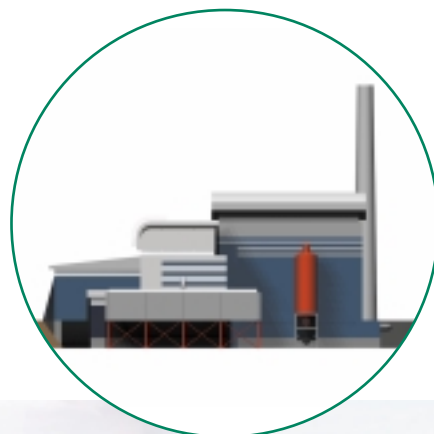
Onyx will be building on the successes of Sheffield's district heating network which is one of the largest and most successful in the UK with 43km of pipe line installed delivering energy from Norfolk Park to Weston Park. There are currently 119 buildings



*Proposed design of the new Energy Recovery Facility*

connected to the District Heating Network in Sheffield, including Universities, Health facilities, Shops, Offices and Leisure facilities. In 2001 nearly 125,000 MWh of heat were delivered to buildings in Sheffield City Centre and the surrounding areas.

Onyx believes that Energy from Waste has a vital role to play in its integrated waste management strategy for Sheffield. The new facility will take its place alongside several other waste management schemes, including the creation of a Materials Recycling Facility at Beighton and the improvement of civic amenity and Bring Bank sites to raise recycling rates in the city.



## WORLD WIDE WEB • WISE



[www.greenenergy.co.uk](http://www.greenenergy.co.uk) is undergoing some big changes at the moment. To ensure that the information we present is up to date we are working behind the scenes to be able to launch a great new site. Improvements will be made to the site to reflect how the district energy network has grown over the last few years and to incorporate some new and exciting features.

The site will provide lots of useful information for those who log on-line to find out about district energy for the first time as well as those who are familiar with how district energy works but want to keep up to date with development of the network and how it might benefit them.

The new and improved site will give you background information about the concept of district energy and the company. It will also include useful information of how to get connected to the network and some interesting facts and figures on Energy and the Environment.

If you log on to [www.greenenergy.co.uk](http://www.greenenergy.co.uk) you can download a copy of this newsletter electronically but more importantly you can register your e-mail details to receive a message from us letting you know when the new and improved site is live.

**Log on and register now.**