

**Balfour Beatty****UBB (Gloucestershire) Construction JV**
Gloucestershire Energy from Waste Facility

Welcome to the fifth newsletter from the Gloucestershire Energy from Waste Facility project. The project is part of a joint venture between Urbaser and Balfour Beatty (UBB) to provide a key element of waste management infrastructure in line with Gloucestershire's Joint Municipal Waste Management Strategy.

So far, much of the concrete construction and groundworks have now been completed, the erection of steel structures that will form the building is well under way, and the process equipment is starting to arrive on site.

As well as these quarterly community-based newsletter, we also publish regular construction update bulletins and attend Community Liaison Group meetings. To find out more about these, please visit our website at www.ubbgloucestershire.co.uk or for any queries please contact us directly: info@ubbgloucestershire.co.uk

With best wishes,
Andrew Bendall
Urbaser Balfour Beatty Project Director



Project Update: Heavy Metal

The autumn has seen continued concreting works, with the construction of the turbine hall by continuous

boiler has now been completed, with foundation works for the electricity substation and transformer near completion.

With the main concreting works drawing to a close, work has started on constructing the structures to support the flue gas treatment equipment. Work is also progressing well on the administration block and visitor centre.

Some components of the process equipment such as tanks, pumps, and pipework have arrived on site and been placed into position ready for installation. The main elements of the combustion grate and boiler sections are expected to arrive shortly. Off site, to install the electricity export cable is progressing to schedule.



Need a Lift?

One of the most noticeable features of the construction site at present is the cranes that make light work of lifting heavy equipment and supplies across the site.

At the start of December we had eight cranes on site. The tallest, a 280 tonne capacity Hitachi Sumitomo, reaches a maximum height of 103 metres. The crane with the heaviest lift capability is a 6300 Grove machine, capable of lifting up to 300 tonnes.

A crane's lifting capability is dependent on how far it has to reach out to pick up or set down. The heaviest lift we expect to carry out will be offloading the electricity generator that will be connected to the turbine. This single piece of equipment weighs over 60 tonnes.

Operation of the cranes is closely controlled by UBB supervisory staff. Before cranes are allowed to operate, a detailed lift plan is agreed between UBB, the subcontractor using the lift capability, and the crane operator. This is to ensure that the right crane is used, is in the correct position on suitably prepared ground (to support the weight), and that it will not conflict with other site activities.

Crane supervisors are employed by each sub-contractor to monitor lifting operations, with UBB supervisors visiting lifting operations on a daily basis to ensure co-ordination between each sub-contractor.



In the Spotlight: Jeremy Young, Quality Manager

To provide reliable, safe, and efficient process equipment for the Gloucestershire Energy from Waste facility, we have hired experienced and proven equipment suppliers. However, a great deal of time and effort is spent on ensuring that the supplied kit is properly put together and fit for purpose. Responsibility for this falls to Jeremy Young, our Quality Manager, who has worked for 15 years in the construction industry as a welding engineer and quality manager before joining this exciting project in June 2016.

What is quality?

"Quality is about making all levels of the project perform to their agreed pre-requisites – from project management to skilled tradesmen and across all of the departments from design to document control.

There's more to quality than just manufacturing without any defects or getting the paperwork collated at the end of the job – although those things are certainly an important part of the picture.

What quality means for any project is ultimately a question for anyone who has an interest in the success of the project. Part of my job is to be able to verify that the project has been constructed to the technical specifications and drawings that have been prepared and approved for the project, not only at the end of the job but at any stage of the job. This is done by being audited and by conducting audits, assessments, and reviews on departments and subcontractors too."

What are the different steps taken to ensure quality?

"A typical example from the most recent phases of the job is analysis of the concrete cube testing results on a regular basis, where 100mm cubes of concrete are made daily, taken from the deliveries, and stored under controlled conditions, some for seven days and others for 28 days, before being crushed in a laboratory to see how strong the concrete has become, and verify that the concrete placed meets the design requirements.

I believe the end quality boils down to three things: strong governance to define the project's aims and translate them into action, systems of assurance to make sure things stay on track, and a culture of review and improvement where possible.

My favourite slogan, which I use frequently is "Prevention is cheaper than cure." For me this means that early involvement of quality control of supplied equipment to site will significantly reduce the possibility of defective or incompatible items being delivered, which may not have any time to be modified or repaired once delivered."

Who is responsible for quality?

"Everyone from the project director to the intern is responsible for quality. Different people will have responsibility or influence over different things that affect quality, such as specifying requirements or meeting those

It is important to have people who can provide the knowledge, tools, and guidance to help everyone else play their part in achieving quality. Many will have titles such as quality manager, quality engineer, quality director, or assurance manager, while others deal with aspects of quality as part of a broader remit. Some are concerned with the delivery of products and services, some are employed in-house, while others work outside the project."



Is it Really the End of Landfill?

The Gloucestershire Energy from Waste facility will complement and support the recycling efforts of Gloucestershire residents and businesses, and divert waste from landfill across the County.

The local authorities in Gloucestershire have an agreed plan, set out in the Joint Municipal Waste Management Strategy, to reduce, re-use, and recycle municipal waste, and to recover value – in the form of energy – from those wastes that cannot readily be recycled or composted. On completion of the Gloucestershire Energy from Waste facility, all the pieces of the infrastructure jigsaw of facilities and services will be in place for the objectives of the Strategy to be achieved.

The Energy from Waste process gives rise to quantities of inert ash and clinker, as well as lime-based products from the flue gas treatment equipment. There are established and newly emerging techniques which may enable these materials to be recycled into construction raw materials, contributing to the 'Circular Economy.'

With the residents of Gloucestershire playing their part in maximising recycling, and the plant dealing with the residual waste left over after recycling, we can virtually eliminate the need for landfilling untreated waste.

We work closely with Gloucestershire County Council, who are offering these handy tips for recycling and reducing waste over the festive period.



Have Yourself a Merry, Little Christmas?

Gloucestershire's Joint Waste Team is encouraging residents to have a greener Christmas by reducing, reusing, and recycling their waste in the run up to the big day. While Christmas is a time of celebration for many, the season also brings a dramatic increase in the amount of rubbish making its way into refuse bins up and down the country.

Along with the equivalent of two million Christmas dinners being ditched it is estimated that 500 tonnes of tree lights will be binned – despite the fact that both are fully recyclable. And that's not all. The UK will use enough wrapping paper to stretch to the moon and enough foil to cover an area greater in size than the whole of Gloucestershire, all adding to the burden of festive waste.

To help residents reduce the amount they throw away, the Recycle for Gloucestershire website (www.recycleforgloucestershire.com) is featuring an online advent calendar throughout December. Behind each window is a useful tip, hint, or web link giving advice about how to recycle items like leftover food and broken electricals, as well as ideas on how to turn items which might otherwise make their way into the rubbish bin into something useful.

Seasonal waste reduction tips include taking a shopping list along when on the Christmas food shop to help avoid the temptation to buy things that aren't needed that could well end up in the bin. It's also a great way of saving money at an expensive time of the year by not making unnecessary purchases. It's also likely that people will receive dashing new clothes, but in all the excitement, when making room in your wardrobe, it's easy to ditch old unwanted garments when good quality clothing can be donated to a charity shop to support a good cause.

Older unwanted clothes can be recycled at any one of the textile recycling bank sites in Gloucestershire or at the Household Recycling Centres. Binning clothes and household textiles should really be the last resort. Many of us will also receive the latest electrical gadgets and gizmos but don't forget that unwanted and broken

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The Recycle for Gloucestershire online advent calendar is available throughout December:
www.recycleforgloucestershire.com/advent-calendar



Community Engagement

The Community Liaison Group met on 14 November 2017 and the [minutes are available on our website](#). The group was updated on site progress, and received a presentation on site management and Health and Safety.

As a gesture of goodwill to the town of Stonehouse, where the power export cable is currently being installed, we have agreed to cover the cost of free car parking in the town across the Christmas period and during the most intensive work period. In addition, we have made a contribution towards funding the town's Christmas lights.



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www.ubbgloucestershire.co.uk

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