

**Balfour Beatty****UBB WASTE (GLOUCESTERSHIRE) LIMITED**  
*Gloucestershire Energy from Waste Facility*

Hello,

Welcome to the latest news from the Gloucestershire Energy from Waste Facility.

The Facility has now become fully operational, accepting up to 190,000 tonnes of residual waste (that is waste that cannot be easily reused or recycled) each year from Gloucestershire's homes and Household Recycling Centres (HRCs) and producing over 116,000 megawatts hour of electricity per annum which is exported to the National Grid. Urbaser Balfour Beatty (UBB) is working on behalf of Gloucestershire County Council (GCC) to treat all residual waste for the next 25 years.

The Facility transitioned from commissioning to operations at the end of October 2019 with the remaining project construction team working since then to address snags and complete the outdoor wildlife area. Full operations means that the County has minimised its reliance on landfill, thereby avoiding the production of methane, one of the more harmful greenhouse gases, as well as being able to generate enough electricity to power around 25,000 homes. In addition, the Facility recycles aggregates and metals recovered from the process.

As well as publishing these quarterly community-based newsletters, we attend the Community Liaison Group meetings with local parishes and, from next month, we are hosting tours and visits on a pre-booked basis. To visit the Visitor and Education Centre Facility, please complete our booking form [here](#) or email directly using [info@ubbglooucestershire.co.uk](mailto:info@ubbglooucestershire.co.uk). Furthermore, all Facility updates and news is available on our website: [www.ubbglooucestershire.co.uk](http://www.ubbglooucestershire.co.uk).

With best wishes,  
Stacey Wright  
General Manager,  
Gloucestershire Energy from Waste Facility



## Latest Developments from the Gloucestershire Energy from Waste Facility

At the end of summer, a number of commissioning tests were successfully completed, including a site blackout test to ensure the facility can safely shut itself down in the case of mains power failure, BWV's boiler safety checks, soot blower maintenance to clean the boiler drum tubes in the furnace, and an inspection of the steam drum, which holds the water for making steam.

Commissioning of the waste cranes that feed waste into the facility was also completed. In addition, we completed competency training to operate the cranes and the team moved into the administration block on site.

The Incinerator Bottom Ash (IBA) treatment plant also became operational, and planned maintenance activities were carried out on the flue gas treatment bag house filter, which is a filtration system for cleaning emissions, and the Emergency Diesel Generator (EDG), which shuts the facility down safely in the event of mains power failure. The air over pressurisation system, which keeps positive pressure to keep odour out of office areas, and the turbine were also successfully commissioned.

Commissioning of the rapping system, which cleans the superheated tubes within the incinerator was completed successfully, and the IBA treatment equipment was optimised for dealing with larger materials. QAL 2, the calibration of continuous emissions monitoring (CEMS) equipment, was completed and calibration factors have been inputted into the CEMS data capture software for reporting to the Environment Agency (EA). This ensures the facility is in compliance with EA standards.

BWV carried out steam blowing into the boiler to achieve a required steam quality conductivity level of  $0.2\mu\text{S}$ . This ensures there is pure, demineralised water to meet steam quality for the steam turbine, which requires high quality steam so no minerals are deposited on the turbine blades, which could affect the turbine's performance.

In September, G59 testing, which regulates the connection of a generator device to run 'in parallel' with the mains electrical utility grid, was completed successfully, meaning the facility is authorised and certified by Western Power to export power to the grid. The facility is currently

The turbine was successfully tested for full load rejection, which is a safety test to check it is able to shut itself down without over-speeding, and island mode. This is a functional test to confirm that the turbine will reduce load to approx. 2MW to keep the facility energised via self-generation if there is a blackout on grid.

A 42-day Trial Operation took place in the second week of September to confirm that the facility is reliable when operating. This was followed by T2S testing to ensure the facility is in compliance with the Waste Incineration Directive (WID). This requires the facility to only burn waste >850°C for a minimum 2 seconds, and was successfully completed towards the end of September.

At the start of October, a 72-hour performance test took place to demonstrate that we had met the contractual guarantees of the facility. A planned outage prior to operation took place for 6.5 days in mid-October. This is a normal process that takes place before the handover of any Energy from Waste facility, which carries out internal inspections of the process. With all commissioning activities completed successfully, the facility was handed over from the commissioning to the operating team on 24th October. We continue to have some ongoing minor external civil construction works.



### Welcome to the Visitor and Education Centre

The Gloucestershire Energy from Waste Facility has a fully equipped visitor centre that can accommodate up to 44 visitors at one time. The Aerodrome classroom caters for up to 34 people and the Meteor meeting room is suitable for booking of up to 10 people. This provides a venue for schools, colleges, community and other interest groups to meet and learn about sustainable

tour will need to be booked.

The centre is free for use, and a dedicated Community Liaison Officer is based at the site to host visitors and assist in delivering events. The grounds and landscaped areas surrounding the facility buildings provide a natural habitat resource and garden for educational exploration and study. Businesses and community groups are also welcome to use the Visitor and Education Centre for events unrelated to sustainability and Waste Management.

If you would like to book a site tour or presentation at our visitor centre, please use our [online booking facility](#) or email our team directly on [info@ubbglooucestershire.co.uk](mailto:info@ubbglooucestershire.co.uk).

## A message from Gloucestershire County Council on food waste



Each year it is estimated that a total of 7.1m tonnes of food is wasted by UK householders; 70% of which was still edible.

To help combat the amount of food still being wasted in the county the Souper Trouper campaign hopes to encourage more of us to use up our food leftovers by transforming them into a bowl of delicious, winter-warming soup. Both potatoes and carrots are in the top ten of foodstuffs that are wasted nationally but these ingredients lend themselves perfectly to making a base for many soup recipes. And by adding a range of toppings to give extra texture and flavour a basic soup recipe can become something a little more luxurious. Toasted seeds, crumbled or grated cheeses, chopped herbs, croutons made from baked stale bread, a swirl of leftover cream or yogurt or, for meat-lovers, a rasher of crispy bacon are just some foods that can be used up.

So if you have fresh produce, cooked leftovers and canned goods coming to the end of their shelf life why not get creative in the kitchen and give some of our delicious Souper Trouper

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Visit [www.recycleforgloucestershire.com](http://www.recycleforgloucestershire.com) for more information.



## Community Engagement

The Community Liaison Group (CLG) last met on 14th January 2020. Members received a site tour to celebrate the facility becoming operational. The next meeting is on 24th March 2020. If you have any queries, you can either speak to one of the community representatives (full details are in the CLG minutes) or you can email us directly on [info@ubbglooucestershire.co.uk](mailto:info@ubbglooucestershire.co.uk).

Minutes of the CLG meeting can be found on the [UBB Gloucestershire website](#).

**Click the image to watch a full timelapse video of the construction of Gloucestershire Energy from Waste facility**



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