



## TEMPLEBOROUGH BIOMASS POWER PLANT POWERING A RENEWABLE FUTURE

GENERATING



OF GREEN  
ELECTRICITY

SUPPLYING



HOMES WITH  
ENERGY

SAVING OVER



TONS OF CO<sub>2</sub>  
A YEAR



Our renewable energy biomass power plant will generate clean, green energy using waste wood as a fuel and so is great for the environment. We plan to be fully operational by the end of Summer 2018, when our plant will generate just over 41MW of green electricity which is enough to supply 78,000 homes and save over 150,000 tons of CO<sub>2</sub> every year.



Welcome to the spring 2018 edition of our newsletter, providing all the latest updates on our Templeborough Biomass Power Plant. We are now beginning the first stages of commissioning the power plant and are planning to be generating clean, green electricity by the summer. We hope this newsletter helps get you up to date with our work, but if you'd like to know more then please do get in touch or visit our website at [www.templeboroughbiomass.com](http://www.templeboroughbiomass.com).

Our biomass power plant is one of a growing number of renewable energy projects across the UK, all of which generate clean and safe forms of power from renewable sources. Even more importantly, renewable energy generation helps create a cleaner environment by reducing the climate change gasses we produce to meet our energy needs, so helping to protect future generations. We are hoping our renewable energy plant will start producing power by May 2018 and will be fully operational by the end of the Summer, when it will generate around 41MW of green electricity, which is enough to supply over 78,000 homes and save over 150,000 tons of CO<sub>2</sub> every year.

	2015				2016				2017				2018		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
<b>WORK AT THE SITE</b>															
Site Clean-up															
Piling & Foundations															
Foundation Works															
Onsite Assembly of Components															
<b>ELECTRICAL CABLE WORKS (SHEFFIELD ROAD AND MEADOWHALL)</b>															
Streetworks in Sheffield Road															
Streetworks around Meadowhall															
Pull cable through the installed ducts															
<b>PREPARATION FOR OPERATION</b>															
Cold Commissioning															
Hot Commissioning															
First Steam Test															
First Synchronisation															
First Power to Grid															
Full Commercial Operation															

**Project Timeline** - Tentative/Indicative project timeline for information purposes only – subject to change.

### What's been happening?

It's been a while since our last newsletter and you will have noticed there's been a lot going on. We have now completed the construction phase and are getting everything ready for commissioning. We will shortly be generating energy for the first time.

The wood reception and handling facilities are complete, this is where the wood fuel arrives as wood chips. The wood storage building is fully enclosed and the fuel cranes that will mix the wood and place it on the conveyor ready to go to the boiler are in place. We received our first supply of wood on January 9th which we used to test and commission the cranes, making sure they are ready for use.

We'd like to thank you for your patience whilst we have been laying the cable which carries the power we generate to the national grid to be used by homes across the region. This was completed and made live by connecting the cable to the national grid at Meadowhall in May last year, signalling the end of the roadworks.

You may not have heard of a fish pass, but with the help of the Environment Agency we have now completed one at our weir on the River Don. This is a key part of the Environment Agency's plan to develop a 'swim way' from the sea up the river to the spawning grounds of the Salmon in the South Pennines by making all the weirs navigable. For the first time in 150 years salmon have been seen as far up the river as Doncaster, and with our weir pass completed there is only one more needed at

Rotherham Forge Island, and the Salmon will be able to return to their spawning grounds. Back in the mid 1800's it was normal for steel workers to be fed from salmon caught in the River Don, so we are looking forward to the positive impact these fish passes will have on the number of salmon in the river. But it's not just about the salmon as we have also constructed two eel passes as well, once again to encourage traditional, native species back into the river.

Last, but by no means least, we're very pleased to have brought on board 20 of the 24 members of our Operations and Maintenance team who will be working with us over the coming years to help us generate clean, green electricity for the 25-year life of the plant. We're proud to have built a team of local people, recognising the amazing skill base, knowledge and enthusiasm within the local community.

### What will you see happening in the next few months?

Now we have finished the construction phase of our project, we have started on the commissioning process. This is where we test our power plant to extremes way beyond what our normal operating parameters will be, to make sure everything is working and it will be safe when it moves into normal operation.

As with all biomass power plants, commissioning will take place in two parts, cold and then hot commissioning. The cold commissioning will take place first, during which all the internal tubes will be cleaned by flushing them through with warm acid to remove any dirt, weld material, rust etc. that has found its way in whilst we were building the plant. We will also run the pumps and fans and conveyor belts for the first times to check that everything is in perfect working order before we start up the boiler.

We will then start the hot commissioning in March, first using oil to start up the boiler rather than wood. Steam blowing will start shortly afterwards. This is an important process used to clean the internal surfaces of the boiler and pipework and usually takes place over a period of about a month, with each blow happening at a specific time for just a short, test period. During each steam blow there will be a hissing sound and a visible plume of steam produced which may be noticeable for people living or working in the surrounding area.

We expect that steam blowing at Templeborough will take place during March and April, so if you hear and see something that seems like this, nothing has gone wrong, it's part of our normal commissioning process. We will burn wood for the first time at the end of March, so we can adjust the performance of the boiler to make sure it's as effective and efficient as possible. We will then slowly introduce steam the following month and generate first power to the grid by the end of April. During this whole period, we will have carried out all the required tests to ensure the power generated is safe and reliable, then we can start generating electricity and sending it to the national grid for use in homes and businesses across the region in full commercial operation by the end of Summer 2018.

If you would like to follow our progress as we move towards generating electricity for the first time, then please do take a look at our website at [www.templeboroughbiomass.com](http://www.templeboroughbiomass.com). There is more information on our project, as well as FAQs to try and answer your most popular questions. You will also find links to two, time lapse cameras overlooking the site, so you'll be able to watch our progress as it happens.



Fish Pass at Templeborough



### **What are the benefits to the local Community?**

We are very proud that during our construction period we could invest in so many local and national businesses for the goods and services we needed, as well as our construction team spending money on accommodation, food and probably a few trips to the pub, all in the local area. If you have younger children, you may have noticed that we sponsored the Magna Mayhem this summer holiday, the wackiest bouncy castle experience in the North! We want to make sure that the benefits we bring extend into the next phase of our operations, so as well as employing our permanent team from the local area we have also been looking at how else we can ensure we have a positive impact in the community.

We are delighted that Stobart, our fuel supplier has chosen to buy a site at the old Council depot at Greasbrough Road. They are developing this into a fuel processing unit ensuring the fuel supply chain stays as local as possible and any resulting employment opportunities are readily available to the local community.

Often, we are asked if the electricity we generate can be used by local households, but all our renewable energy gets fed into the national grid and is used by homes across the region. We do however also produce heat through the process of generating electricity, and we are currently working with the local council to look at the feasibility of building a local heat network to supply local communities with a renewable source of heat which could compete with their existing gas or electricity supplier. We are hoping we will have some exciting news to announce on this soon.

### **How can we work with you?**

We can't thank you enough for the support and understanding you continue to show as our project develops, moving on from construction and getting ever closer to generating renewable power. Our work couldn't have progressed as successfully as it has without you and we hope that you feel we are continuing to make a positive contribution to your community. We would love to carry on building a strong relationship with you and so please do contact us with any queries, questions or issues you'd like to discuss - we're always happy to hear from you.

### **Myles Wallace – General Manager**

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For those of you who missed our previous newsletters, please find them in the news section at [www.templeboroughbiomass.com](http://www.templeboroughbiomass.com)