

A close-up photograph of wood chips and biomass material, showing various sizes and textures of wood shavings and chips.

GB-BIO BIOMASS PLANT - HULL

PROGRESS REPORT JULY 2017

PROJECT MILESTONES ACHIEVED TO DATE

- Connection to the grid successfully tested in January
- Energisation was achieved in February
- Meters successfully installed by SSE in early March
- Northern Power Grid made grid connection live in mid-March
- Exported power to the grid before the end of March
- Winner of the “Best Renewable Energy Project or Installation in the Humber Area”





TANSTERNE ADVANCED BIOMASS

AUTUMN *Grand Opening*

We are delighted to announce that the official opening ceremony for the plant will take place in autumn this year. The event will be attended by local dignitaries and will mark the culmination of the efforts of all those involved in bringing this project to successful completion. Our supporting brokers have been key to this success and we hope that some of you will be able to join us for the event.

GENERAL SUMMARY AS OF - JULY 2017

Work continues on many fronts. Notable progress was the start-up of the instrument air compressors and rotation of the ACC fans. The civils in the barn are virtually complete with the fire wall concrete section fitted and the door posts installed.



HSE

A drive on housekeeping by Ashcourt, GBB, and the HRS/Struthers Advisor has improved the site appearance and made access and egress better for all in many areas.

ASHCOURT CIVILS

Concrete continues to be poured at various locations on site when access allows – in order to prevent delays to construction work, concrete is poured in sections at a time. With the re-location of the workshop, and shortly the skips, access to the site will be diverted to allow the civil work for the weighbridge and office to commence.

The roadway at the west end of the site has now been completed and cured. The roadway adjacent to the materials handling units has also been laid and cured. A plan for completing the roadway east of the barn and the weighbridge installation has been put together and is under-way. Weighbridge installation starting with drainage and klargester installation should commence around 19th July.

Installation of a trench across the site to install ducting, process water and services was completed over the weekend of the 23rd June and back-filled. GBB ran the process water, Townswater and fibre ducting with Ashcourt's assistance.

The floor is complete in the barn and the crane gantries have been installed on both sides. Door columns have been fitted in the barn and the firewall concrete section completed.

C.F STRUTHERS

ACC: Cladding completed on the ACC except the west wall. Pipe installation is ongoing. Mechanical alignment checks have started and rotation checks where power is available.

Turbine: Oil pipe installation ongoing. Instrument installation continues.

Boilers: Pipework is being prepared for pressure testing in a series of 5 packs. Testing is due to commence this week.

Steam pipework on boiler 1 high level continues with the pipe bridge. Connection bridge steelwork is due on site.

Pressure testing commenced on the weekend of 8/9th July

C.F STRUTHERS (CONT.)

COBB: Work in boiler 2 has been completed apart from final blockworks on doorways. Curing is still required on boiler 2.

HRS (Electrical)

Electrical installation works continue. Air compressors have been started and the inspection for leaks will be scheduled for week commencing 10th July when the pipework installation has been completed.

VSD commissioning is ongoing. 3 of the 4 ACC fans have now been powered up for testing. The 4 building fans have been tested in the turbine hall.

The demin water system is now 90% complete with the potential for a first fill of the raw water tank in the next few days if Plasticon has completed the pipework final runs, then Envirogen will be back to commission.

Cable tray and cables continue to be installed on materials handling and the boiler skids.

The bicarbonate skid wiring is completed apart from the top level. The burner panel has now been wired, and boilers 1 and 2 FD fans terminated.

HRS

Oil pipework has been treated and is being installed. The oil has been delivered. Gearbox oil is being procured.

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Population of the Pirana maintenance system continues with input from manuals and documents supplied by HRS. A test run is being carried out on the lifting equipment for generating a “PM” or planned maintenance activity.

Trenching of the comms duct from the site boundary across the contractor’s village has been made and will continue towards the future office site.

Duct and cable have been laid to the re-located workshop from the metering room. We are awaiting approval from NPG

GB-BIO (CONT.)

to tie in to the supply. This duct has been extended around the NPG sub-station for the future camera installation.

The Process Water feed has been tested and water is now available for the demin plant when required. A temporary line has been run on the surface until the final trench has been dug.

LOOKING AHEAD

- Plans to start powering up drives and checking rotation are being prepared.
- Oil flush of turbine.
- Pressure testing and pickling.