

Local stakeholder update July – August 2017

Below is a summary of the work that has taken place over the last month, and the work planned for the following month.

JULY

- The steam turbine and generator for the gasification facility were delivered and placed on their foundations. The turbine is powered with steam from the gasification process to turn a generator which will generate electricity. This electricity is used to power the Eco Park, and the remaining energy exported to the National Grid.
- In the Anaerobic Digester (AD) area, work has started on pulling cables connecting the sub-station to various electrical items and control equipment.
- Installation of the odour control ductwork continued in the reception and maturation halls in the AD facility. The ductwork will be used to control and neutralise odours on the facility using an ionization system.
- Work on the mechanical installation for the gasification train, boiler, and flue gas treatment systems continued throughout the month.
- Within the gasification facility, further work has been done on building internal walls to separate the different areas. Some internal walls could not be built until after the pre-treatment equipment had been delivered and installed.
- Work started on erecting the Air Cooled Condensers (ACC). The ACC is a tube heat-exchange system installed at the outlet of the steam turbine. The steam exiting the turbine passes through a bank of horizontal tubes around which air is circulated to cool the steam and condense it back into water.
- Roofing and cladding has continued on the Administration building to enclose it and make it weatherproof. This will take a number of weeks to complete and eventually the cedar wood cladding will be added as the final finish on some aspects of the building.

In July, the Eco Park was inspected by the Considerate Constructors scheme and awarded an A1 Star rating with the inspector commenting that the Eco Park '*is an exceptional site with the highest standards of code compliance in evidence*'.

AUGUST

- On 07 August, the main stack will be delivered and installed. The stack is 49 metres tall and will be delivered to site in three sections and erected. Due to the length of each section, the delivery lorries, and erection cranes will travel through Charlton Village. The stack will be delivered and installed in one day, so will require an early start and late finish to complete.

- The erection of the ACCs, gasification, boilers and flue gas treatment will continue.
- The shredder for the AD facility will be delivered. This will shred the food waste into small pieces so it's ready to be mixed with water before being pasteurised and going into the digestion tanks.
- Work on the duct work and external cladding of the gasification building will continue into August. In addition, fire cladding will be installed on internal walls.
- Pressure testing will start in the AD facility. This is part of the commissioning process where we check that the pipework can handle the required level of pressure to be safely operated.