Energy Recovery Centre at Shelton Road

Corby Limited

January 2019

Corby Limited is seeking to deliver an energy recovery centre at Shelton Road, Corby which will treat local waste arisings and provide heat and power for the local community.

Corby Limited is preparing a new planning application to submit to Northamptonshire County Council and we welcome your views.

Site background

In September 2016 Northamptonshire County Council (NCC) approved a planning application to develop an energy recovery centre at Shelton Road, within the Willowbrook Industrial Estate.

The existing planning consent comprises gasification technology. In the last two years the financial landscape for gasification projects has changed: as a relatively new technology in the UK, with few existing plants, funders have been reviewing the performance of recently completed gasification projects before committing substantial funding to new ones. At the same time, government subsidies available to gasification projects have been removed.

While the financial landscape has changed, the urgent need for new residual waste treatment infrastructure in Northamptonshire has not. Therefore, the owner of the Shelton Road site, Corby Limited, has decided to submit a revised planning application, using a proven combustion technology.

What's new

The proposed new energy recovery centre will feature a local heat and private wire network to provide cheaper and more environmentally sustainable heat, cooling and electricity for local businesses and housing.

The facility comprises a proven, effective technology, with several similar plants operating across the UK and many more in environmentally forward thinking places like Scandinavia. The plant will not be reliant on subsidies.

The key difference in the technology from the consented scheme is the use of additional oxygen in the energy recovery process.

The facility is designed to treat household and commercial waste. The plant will not treat hazardous or clinical waste.

The plant will generate 23MW of clean electricity - enough to meet the energy needs of most of Corby's homes.

Due to the change in the technology and the intention to accommodate all of the proposal within a self-contained building, the height of the building will be increased along with the

Corby Limited is inviting local residents to a public exhibition.
To find out more – see back page for details.

stack. The energy recovery centre will be contained within the original site.

The proposed plant will generate similar traffic movements to the consented scheme in the peak hours.

Why develop this facility at Shelton Road?

There is a shortage of operational waste treatment facilities in Northamptonshire as identified in the adopted Northamptonshire Minerals and Waste Local Plan (July 2017).

Northamptonshire currently disposes of 170,000 tonnes of residual household waste outside the county, resulting in additional costs and unnecessary lorry miles. This is in addition to the considerable amount of commercial and industrial waste that is exported.

The proposed facility will have a planned throughput of 260,000 tonnes per annum, although the actual throughput is expected to be lower.

The site already has planning permission for the thermal treatment of waste and is in an industrial area.

The proposed facility represents an investment of around £200 million in infrastructure that is desperately needed.

The project will provide over 200 construction jobs and then 25 long-term, permanent jobs directly at the plant, plus a considerable number of jobs ancillary to the plant operation.

This new centre will also bring significant additional business rates. Following recent changes in legislation a considerable portion of these rates stay with the Local Authority.

Shelton Road is part of the Willowbrook Industrial Estate with many businesses using considerable amounts of energy.

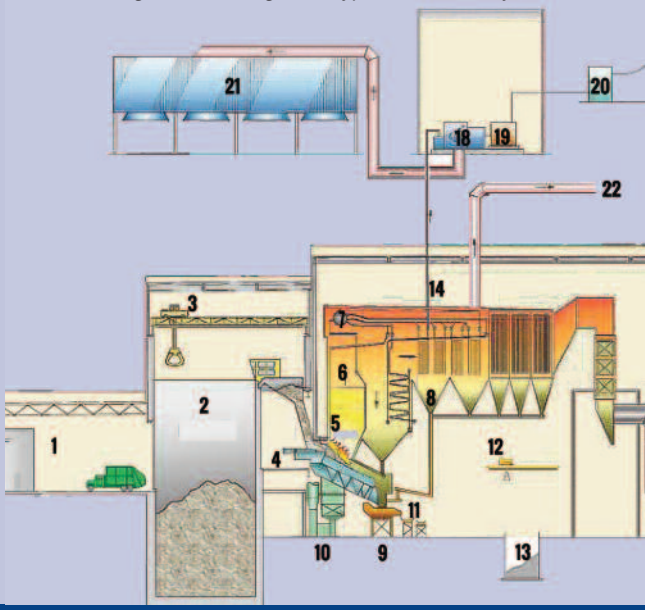
As a Combined Heat and Power (CHP) plant, Corby Limited will be able to provide local businesses with electricity cheaper than they would otherwise get from the

How does the process work?

The proposed energy centre will process waste derived fuels in a combustion chamber where oxygen is added to produce temperatures over 850°C. The heat from the chamber is used to create steam which is used to make electricity by turning a steam turbine as well as producing heat for local networks.

All gases from the combustion chamber are filtered and cleaned before being vented to the atmosphere in line with strict controls monitored by the Environment Agency.

Diagram and image of a typical CHP facility

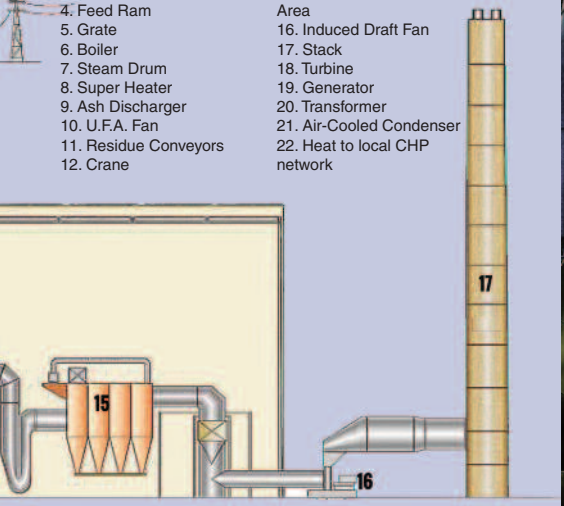


National Grid, ensuring Corby remains competitive against other locations for further investment and job creation.

Modern energy recovery centres such as the one planned are strictly monitored by the Environment Agency and comply with all applicable legislation including control of emissions.

Site location map

1. Tipping Floor
2. Refuse Pit
3. Refuse Crane
4. Feed Ram
5. Grate
6. Boiler
7. Steam Drum
8. Super Heater
9. Ash Discharger
10. U.F.A. Fan
11. Residue Conveyors
12. Crane
13. Ash Bunker
14. Boiler House
15. Flue Gas Treatment Area
16. Induced Draft Fan
17. Stack
18. Turbine
19. Generator
20. Transformer
21. Air-Cooled Condenser
22. Heat to local CHP network



Corby Limited would like to invite you to a public exhibition to find out more about our plans.

The exhibition will be held on

Thursday 7 February 2019 from 2pm – 7pm
at the Stephenson Way Community Centre
18- 28 Stephenson Way
Corby
NN17 1DA

This informal drop-in event is intended to provide the local community with the opportunity to find out more about the proposal. Members of Corby Limited's development team will be on hand to discuss the plans and answer any questions you may have.

If you are unable to attend but would like any additional information about the proposal please contact us by:

Visiting: **www.corbyrenewableenergy.com**

Emailing: **info@corbyrenewableenergy.com**

Phoning: 0808 168 1678

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