

## DRENL

### Eggborough Public Exhibition 25<sup>th</sup> & 26<sup>th</sup> March

#### Frequently Asked Questions

##### **1. What waste will the facility process?**

The facility will primarily process commercial and industrial waste but will also accept house clearance waste from local households. Commercial waste is classified as waste arising from the commercial sector including wholesalers, catering establishments, shops and offices. Industrial waste is waste arising from the industrial sector which include food and drink manufacturers, textiles/paper/publishing companies and machinery and equipment manufacturers.

DRENL is interested in the following types of waste from these producers:

- Paper
- Cardboard
- Plastics
- Film
- Metals

##### **2. Where will waste be stored?**

Waste will be stored within the enclosed Waste Reception Building. No waste will be stored outside the facility at any time.

##### **3. Where will the waste be collected from?**

DRENL will make all reasonable efforts to ensure waste is collected as close to the facility as possible. DRENL will not, however, be operating its own vehicles, so it will depend on the waste operators as to where the waste originally comes from.

##### **4. Is there enough waste in the area to support this facility?**

Preliminary studies undertaken by DRENL have indicated that there is an available supply of commercial and industrial waste within the local area sufficient to support the facility's needs.

The current North Yorkshire County Council *Minerals and Waste Joint Plan Evidence Paper* estimates that in 2015 there will be approximately 706,000 tonnes of commercial and industrial waste to be managed within North Yorkshire either by way of landfill or treatment. This figure rises by 33% up to 2021 to a total of 730,000 tonnes.

## **5. How much traffic will the facility generate on a daily basis?**

During peak operations, the facility will generate a total of 88 HGV movements per day (approximately 44 in and 44 out per day).

Vehicles associated the facility will be required by contractual arrangements with DRENL to access the facility via the M62 and A19. No vehicles will be permitted to pass through the nearby villages of Eggborough and Kellington.

The deliveries of waste and the export of recyclable materials will take place between the following hours:

- 08.00 to 17.00 Monday to Saturday
- Waste will not be accepted on Sundays or Bank Holidays

DRENL will make all reasonable efforts to reduce vehicle movements on local roads during morning and evening rush hours.

## **6. What emissions are released from the facility?**

Emissions from the facility will predominately consist of carbon dioxide (CO<sub>2</sub>) and water. Before being released into the atmosphere all flue gases will be passed through a gas cleaning system to ensure that the emissions from the facility remain below the maximum permitted by the Environment Agency, DRENL will have to apply to the Environment Agency for a permit before the facility can be operated. Emissions from the facility will be monitored on a daily basis and controlled and regulated by the Environment Agency. The emissions will be monitored on a continuous basis and dioxin measured on a regular basis. All emissions will be reported to the Environment Agency who will ensure that the limits stated within the permit are not exceeded.

The facility will also reduce the amount of waste currently being sent to landfill therefore reducing the amount of methane gas being released into our atmosphere.

## **7. Will an air quality assessment be prepared to consider the cumulative impact of the existing and proposed facilities in the locality?**

Yes, an independent Air Quality Assessment will be prepared and included in the documents accompanying the planning application. The Assessment will present scenarios which consider the facility in operation under both normal and abnormal operating conditions. A cumulative impact assessment will also be undertaken which will consider the emissions of the DRENL facility in conjunction with other existing and planned developments.

### **8. How many jobs will be created?**

The proposed development will generate approximately 200 jobs during the construction and adaptation phase. During the operation of the facility approximately 60 permanent skilled and un-skilled jobs will be created. DRENL is committed to ensuring that local people are given every opportunity to access the jobs available.

### **9. What's left from the process?**

Depending on the nature of the waste received, it is estimated that up to 50% of this waste will be recovered for further recycling at an appropriate facility elsewhere. The remaining by-products from the gasification process are ash, which will be recycled for use in road foundations and other construction materials, and a small amount (less than 3% of the feedstock treated by the gasifier) of residue from the gas clean-up that will be either sent for chemical processing or landfilled.

### **10. How does the gasification process work?**

The main component of the gasification system is the gasifier which is a vessel in which the prepared feedstock made from the material leftover after recycling is heated but without enough oxygen present to allow it to burn. This results in the molecular structure of the waste material breaking down to produce a synthesis gas (known as syngas) and char. The syngas is then mixed with more oxygen and combusted at a temperature in excess of 850°C and the char converts to ash. In a gasification system there is no direct burning of the waste.

### **11. Will the plant smell?**

No. The plant is designed with fast acting roller shutter doors which will be closed when vehicles are inside the building to unloaded waste; keeping both noise and odour emissions to a minimum. These doors will remain closed other than when vehicles enter or leave.