



## Fire Prevention Plan 2023

### Site Details:

#### **Waste4Generation Corby**

12B Earlstrees Road

Corby

Northamptonshire

NN17 4AZ

Operated by: **Waste4Generation Ltd**

Telephone: **01536 266840**

Out of Hours: **07419 186694 (Site Phone)**

Waste4Generation Corby is a high-rate AD site with feedstock generation, situated within the Earlstrees Industrial Estate in Corby, Northamptonshire.

This plan has been designed for use by the following:

- Staff & Site Operatives
- Contractors
- Emergency Services (Fire Department)

This document as well as the [FIRE ACTION PLAN](#) detail how best to tackle a fire on-site.

The site is comprised of 3 distinct sections:

- Site Yard – Containing the AD plant, flare & CHP engine as well as plant & process equipment.
- Warehouse – Containing IBC storage, proposed tank farm as well as R&D plant & equipment.
- Offices – Site Offices, Reception & Welfare Facilities

A Fire Risk Assessment has been undertaken in order to produce this Fire Prevention Plan, with the preventative steps and risks identified to be minimised.



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The Fire Prevention Plan, in line with EA guidance, implements measures for the site to meet 3 key objectives:

- Minimise the likelihood of a fire happening.
- Aim for a fire to be extinguished within 4 hours.
- Minimise the spread of fire within the site and to neighbouring sites.

### Types of Combustible Materials Kept on Site

The following details the type of combustible materials kept on-site and their quantities. This is to be routinely updated should additional materials be kept onsite or should quantities of materials change. It is the responsibility of the Site Manager & Site Director to ensure the below table is kept updated.

<b>Combustible Material Inventory</b>		
<i>Combustible Material</i>	<i>Location</i>	<i>Quantity</i>
Heating Oil (Kerosene)	Yard	2500 litres
White Diesel (for Telehandler)	Yard	500 litres
Engine Oil	Warehouse (within Flambox)	50 litres

The site keeps only minimal volumes of combustible materials and does not store any combustible waste streams as detailed by EA guidance.

### Introduction to Fire Prevention Plan

This plan is to be kept within the Site Office and all staff & operatives are to have read and understood this plan.

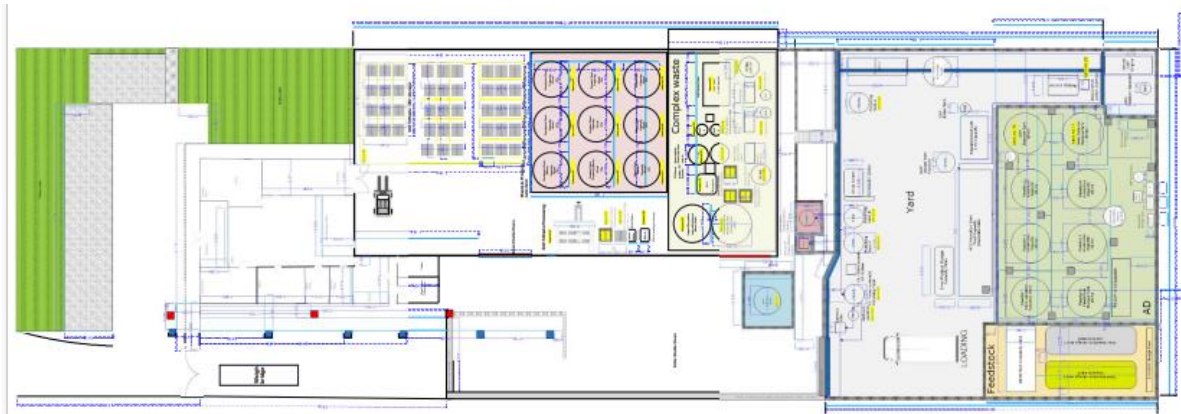
Site activities include:

- High-rate anaerobic digestion (wet AD with No gas storage)
- Reception (the loading & unloading of liquid wastes)
- The blending & mixing of non-hazardous (& non-combustible) waste streams for feedstock generation.
- Pre-processing of incoming waste streams.

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- R&D centre for pre-treatment & hydrolysis of waste stream
- Final effluent treatment

The majority of the site's activities taken place within the yard towards the back of site with non-combustible wastes and the R&D facility taking place within the warehouse.



The above plan is displayed within the site office, detailing the activities undertaken within each section. The site plan in Appendix A & Appendix B details the locations of flammable materials kept on site.

### Location of Sensitive Receptors

The site's sensitive receptors are detailed within the site's Environmental Risk Assessment and within the site's Environmental Management System (reference Env Risk Assessment & EMS). Due to being located on a busy industrial estate, the site does have local sensitive receptors to protect.

### Managing Common Causes of Fire

#### *Arson*

The risk of a fire being started on-site by arson are very low. The site is accessed either through locked gates (for tankers) or alternatively through a locked reception door. The site is fully alarmed, with 24/7 CCTV monitoring and a security guard. All guests & staff are required to sign into site on arrival, with no unauthorised access.

#### *Plant & Equipment*

Plant and equipment are to be routinely checked and maintained as per manufacturer's instruction. Maintenance to be undertaken by trained personnel or external contractors



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where required. As Waste4Generation Corby is a high-rate AD plant, there is a DSEAR plan in place, with zoned areas which controls access, hot works and maintenance to be undertaken. All staff and operatives are to be made aware of the DSEAR requirements and no works to be undertaken within DSEAR zones without a permit to work and approval. A copy of the DSEAR report is kept within the site office. All hot works to be carried out by trained personnel / competent contractors and overseen by site management. There is a fire watch in place for all hot works & works within a DSEAR zoned area.

### *Electrical Faults*

The site's electrical equipment is PAT tested and used as per the manufacturer's instructions. Plant & equipment has all been installed by trained, competent Industrial Electricians / Contractors.

There are to be no damaged or exposed electrical cables around site. On seeing a damaged cable, this is to be removed and replaced, with the site manager being informed immediately.

All electrical equipment is to be maintained as per manufacturers instructions and site's requirements. Regular maintenance to be scheduled by Site Manager and overseen by Site Director.

### *Smoking Policies*

Waste4Generation Corby is no smoking site, with no smoking permitted within the premises or site itself. Smoking facilities are set-up across the carpark outside the front entrance, with a cigarette bin for safe disposal (which is to be emptied regularly).

### *Industrial Heaters*

All industrial heaters are to be maintained and serviced as per maintenance schedule.

### *Hot Exhausts & Engine Parts*

All exhausts are situated at height and away from potential contact. Exhausts and engines are regularly maintained and serviced. There is a hot watch in place during start up and shutdown of the engine and whilst maintenance is in place.



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### *Ignition Sources*

Due to the DSEAR zoning on site, all ignition sources are controlled and there is no hot works or sources of ignition near combustible storage.

### *Batteries*

Batteries are stored correctly and are disposed of as per the manufacturer's instructions. There are no batteries for disposal as part of End-of-Life Vehicles on Site (ELVs).

### *Leaks & Spillages of Oils and Fuels*

The site has a dedicated 'Site Spillage & Drainage Procedure' which details how to tackle spills on site. The location of spill kits is also detailed within the drawing in Appendix A & Appendix B. Both fuel tanks are double bunded, and then contained within an additional storage bund within the yard preventing any run-off of spills. The surface water drainage is bunged & sealed to prevent surface water run-off from site, preventing all run-off from spills. Should there be a fuel spill within the bund, this is to be collected and then pumped to a sealed container and removed from site.

### *Build-Up of Loose Combustible Waste, Dust & Fluff*

The site has dedicated 'Site Cleaning Procedures' including the regularly washing down of site. The wastes received should not contribute to fluff & dust being brought onto site, with highly contaminated tankers being rejected prior to arrival.

The majority of waste received is either in a liquid or sludge state, and there is not expected to be any source of loose combustible waste (as no combustible wastes are accepted onto site).

### *Reaction Between Wastes*

As part of the pre-acceptance and acceptance processes, the compatibility of the incoming waste streams is assessed, and no incompatible wastes are to be accepted into site. The majority of wastes receiving are food-based liquids & sludges which do not react. There is not expected any run-away reactions from the incoming waste streams, and these are verified at pre-acceptance and acceptance. Other pre-acceptance and acceptance limits protect the plant from chemical contamination / presence of cleaning chemicals within incoming wastes.



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### *Waste Acceptance & Deposited Hot Loads*

There is not expected to be any hot loads, except the occasional product which may arrive <60 °o., which are received and isolated into their own dedicated tank. No excessively hot waste streams to be accepted on to site. The receiving tanks and pipework are all designed to be capable of holding liquids of high temperatures.

### *Hot & Dry Weather*

The site has been designed to be operational in all weathers, including hot dry weather. All tanks are comprised of materials which are weather-proof. There is temperature monitoring throughout the process, preventing the digesters from over-heating (and effecting process efficiency). The storage times of wastes are kept to a minimum as general good practice as well as implementing BAT techniques and a 'first in – first out principle' is applied.

The reactors are cladded to protect from over-heating of the stainless-steel vessels, which are all fitted with temperature gauges. The storage of the waste is to be kept to a minimum and increased if required.

### Prevent Self-Combustion

The wastes stored onsite are non-combustible and are not expected to self-combust. There is temperature monitoring on storage tanks to monitor and check for increasing temperatures.

Fill levels on tanks restricted to below tank capacity to allow room for potential expansion.

### Manage Waste Piles

Not applicable – no storing of waste piles onsite.

### Prevent Fire Spreading

Fire Spreading can be minimised by either:

- Separation Distances
- Fire Walls & Bays

In the case of Waste4Generation Corby, whilst the waste is contained within sealed tanks and is non-combustible, where combustible substances are kept on site, these are all segregated and kept both at a significant distance away from each other, so that a leak or a



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fire should not affect the other storage tank, but also storage tanks to be kept closely to receiving vessel (such as fuel into the boiler), minimising potential for leaks and size of leaks.

### Quarantine Area

Whilst Waste4Generation does not have waste piles or combustible materials, there is sufficient area within the middle of yard at the back of site for a quarantine area for burning material to extinguish it. However, due to the nature of our operations, any potential fires from plant/equipment would require to be extinguished at source and therefore our staff and personnel are high unlikely to be able to safely utilise a quarantine area. A quarantine area has been identified and can be utilised by the Fire Service should it be required and is within a bunded area suitable for containment of cooling water. Within the yard, all vehicle movements can be ceased, and the necessary fire-fighting measures can be undertaken within the quarantine area.

### Detecting Fires

The site is fitted with smoke and heat detectors throughout site which sound and alarm, notifying staff and personnel. The 'Fire Action Plan' details what to do if an alarm sounds or if a fire is visually sighted. The fire alarm system was installed, regulated and maintained by an external UKAS contractor.

### Suppressing Fires

There are hose reels and fire extinguishers situated around site in order to suppress a fire onsite. The 'Fire Action Plan' details steps to be taken and for the Fire Service to be called where the situation requires. Our firefighting equipment has been installed, provided and maintained by a UKAS contractor and is regularly serviced.

### Firefighting Techniques

Waste4Generation have designed our site to allow for active firefighting, allowing for a speedy and efficient extinguishing of any potential fires.

Due to the nature of the site, only very small fires may be attempting to be extinguished by staff, however Waste4Generation have taken precautions to assist with fire fighting and ensuring the required resources are available. These resources are available at all times including operating hours as well as when the site is closed.



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Resources include:

- Available water supply including fire hoses.
- Staff (on-call and during operational hours)
- Telehandler and lifting equipment to help move & assist.
- Available finances to procure additional fire fighting measures / equipment to minimise risk. Finances available to ensure maintenance takes place.

Firefighting techniques include applying water to extinguish fire & utilising fire extinguishers. Waste4Generation Corby does not use methods such as suffocation using soil, sand or gravel (which require prior EA approval). Extinguishing fires is only to be attempted by staff & operatives where safe to do so and with the H&S of the staff as a priority.

### Water Supplies

There is a water main & hydrant situated just outside of the site on the main road for firefighting measures as well as a fire hose situated on site to facilitate extinguishing potential fires.

### Managing Fire Water

The site has both primary and secondary containment with the site to hold all fire waters (see Site Draining Procedure & Diagram). The surface water is bunged and controlled, so no fire water would leave site to surface water. The fire water can be collected and pumped through the site's pumping station to an isolated tank for removal as necessary.

### During & After an Incident

During an incident, no further waste is imported into site, and deliveries are diverted to partner sites.

Waste4Generation will notify neighbouring businesses and assist with traffic control where possible, allowing access into the site.

After the incident, all the collected fire water is to be disposed of safely, to permitted facilities approved for treatment. This includes any water associated with further clean downs. Any damaged plant / equipment is to be removed and replaced.

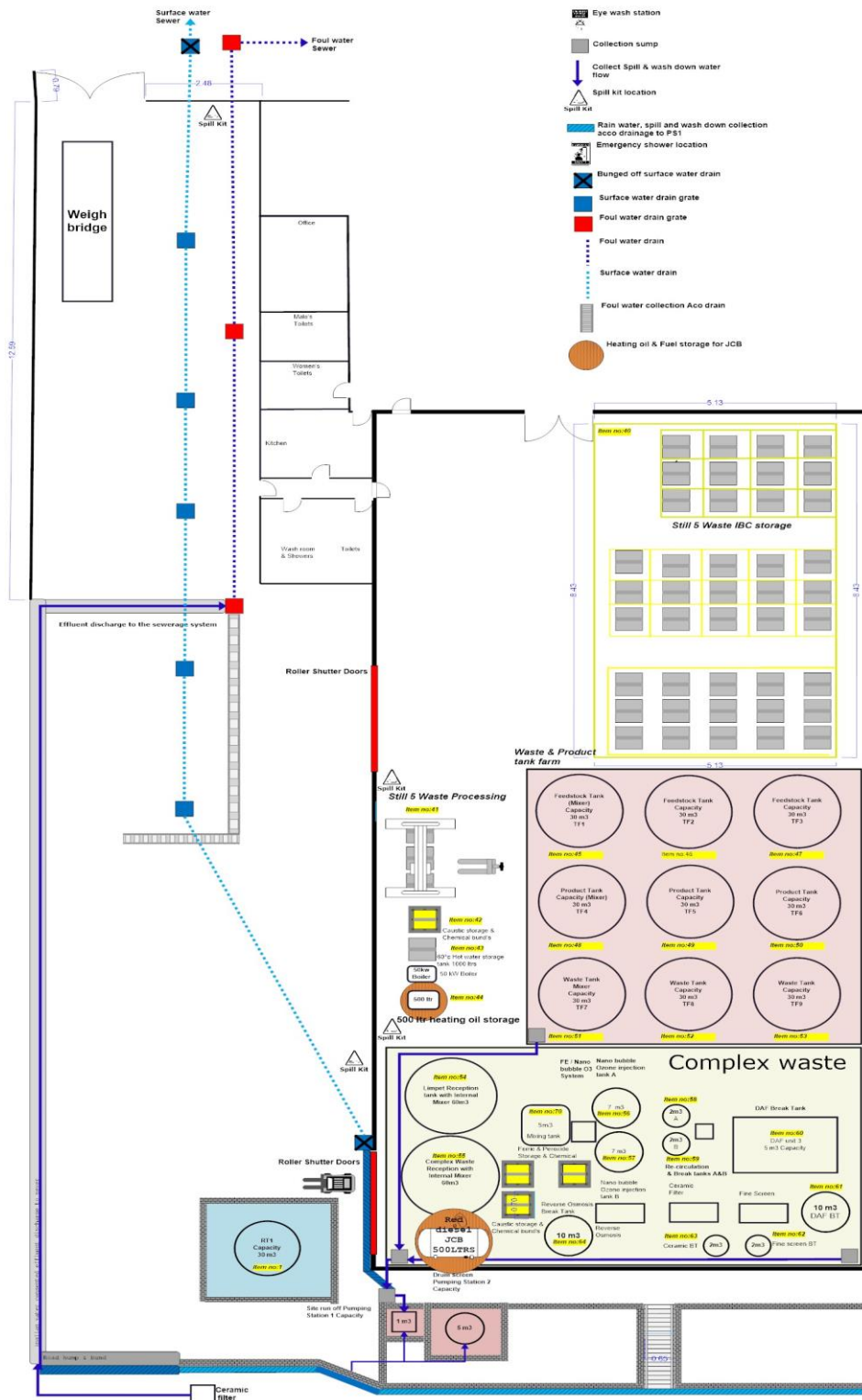
The site will only re-open once operations can safely and professionally re-start.



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### Appendix A: Site Plan Locating Storage of Flammable Materials (!)

#### **Waste4Generation Ltd Heating oil & Fuel storage**



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### Appendix B: Site Plan Locating Storage of Flammable Materials (2)

### **Waste4Generation Ltd Heating oil storage location**

