

## NTS01 – Non -technical Summary

Grorst Energy Ltd operate an Anaerobic Digestion plant at Enfield Farm, Oil Mill Lane, Clyst St Mary, Exeter, EX5 1AF. The site was commissioned in December 2015 and has accepted largely purpose grown feedstocks and manures since this time.

This variation is to increase the annual throughput from 31,000 per year to approximately 67,000 tonnes per year. This is split fairly equally between waste and non-waste feedstocks – around 31,000 tonnes of waste and 36,000 tonnes crop and other non-waste inputs.

### Storage arrangements are as follows:

#### **Pig Slurry**

Slurry is pump fed from the adjacent farm straight into the reception pit. The entire system is sealed meaning the slurry is not transported, stored or fed in the open air. There will be no change to this process as a result of the variation.

#### **Chicken Litter**

A purpose-built storage shed will be erected as soon as planning permission is received. All chicken litter will be stored inside the shed protecting it from elements that may cause odour/dust issues. The site EMS and Odour Management Plan is included in this application in addition to the relevant drawings.

#### **FYM**

FYM will continue to be stored within the existing clamps.

#### **Purpose Grown Crops**

Crops will continue to be stored in the existing clamps. Maize silage is ensiled prior to storage.

### Storage Tank

The current open topped storage tank will also be covered as part of the latest changes on site. The dome will allow any residual biogas to be captured and processed through existing plant (CHPs, DMT) rather than be released to the atmosphere. The gas holder to be added to the tank will be the same as the existing gas holder on the primary storage tank. It consists of double-membrane. Both the inner and outer membranes are fabricated from PVC-coated polyester fabric. The outer membrane is permanently inflated, using an air blower, to maintain a positive pressure on the inner membrane.

The addition of the second gas dome will increase our maximum gas storage potential from 2700m<sup>3</sup> to 5580m<sup>3</sup>.

### Digestate Production

The increase in feedstock into the site will increase digestate production from 21,354 tonnes to 56,000 tonnes. The total storage available to us is therefore 19,181 tonnes which allows for 4 months of digestate storage. This allows some contingency in excess of the 3.5 months necessary to cover the NVZ closed period.