

**Environmental Permit Application** 

Valley Farm Poultry Ltd

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## 1. Energy Usage

Energy Source	Use			
Mains electricity	Lighting, ventilation, computer control systems, feed augers, water pumps			
Solar Panels on roofs	Providing some electricity to the poultry houses			
Diesel	Standby generator and backup electric system			
Gas	Heating system			

### 2. Heating

The correct environment for the birds is maintained in the sheds through a combination of heating using biomass and ventilation fans located in the roofs.

Each shed will be / is monitored by a computer system, which automatically controls and records the humidity and the temperature. Control sensors are checked regularly and kept clean so they are able to detect the temperature at the stock level. Ventilation rates are computer controlled to minimise, as far as the indoor requirements allow heat losses from the sheds. Fans are fitted with back draft shutters to reduce heat loss.

The sheds will be fully insulated with a U-Value of approximately 0.4 W/m2/°C to reduce condensation and heat lost.

The sheds will be constructed to ensure litter is dry and friable, and reduce the need to heat the sheds to keep the litter dry.

The sheds will be maintained in good condition, cracks and open seams will be repaired. The concrete flooring will be maintained and cracks will be repaired. Each shed will have a damp proof course. Nipple drinking system reduces spillage of water.

There will be a backup boiler and heating system in case of failure to one of the LPG tanks.

## 3. Electricity

The ventilation fans have been selected so that they are appropriate in power and size for the sheds. The computer control systems control the ventilation for maximum efficiency i.e. one fan operating at full capacity rather than two operating at half their capacity. The fans are regularly maintained, and cleared of debris.



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Low energy light bulbs will be used in the control areas and stores. Fluorescent lights will be used in the sheds. A variable lighting period will be used during the crop cycle.

A diesel run back-up generator will be used in case of a power cut. This will have an automatic change over and will also swap back once the power shortage is over.

Solar panels will be fitted to the poultry shed roofs to assisting in providing renewable electricity to the site.

### 4. Fuel Oil

The standby generator will be regularly maintained in accordance with the manufacturers' instructions to ensure it operates efficiently.

#### 5. Breakdown

A breakdown of delivered and primary energy consumption will be recorded and provided to the Environment Agency annually in the following format:

Energy Source Delivered MWh	Energy Consumption Primary MWh	% of Total
Electricity		
Oil		
Gas		
Solar		
Exported Energy	MWh	Source
	N/A	N/A

