

**WELTON CLIFF POULTRY FARM,
ENERGY SOURCES & EFFICIENCY PLAN**

Energy Sources

The following energy sources are used to undertake the permitted activities: -

Energy Source	Energy Use (Examples)
Electricity	<input type="checkbox"/> Lighting in sheds, office, rest area and yard <input type="checkbox"/> Ventilation systems and alarms <input type="checkbox"/> Feed supply systems <input type="checkbox"/> Water pumps <input type="checkbox"/> Domestic water heating in rest area
Diesel Oil	<input type="checkbox"/> Fuel for the stand-by generator, available for generating electricity in the event of a mains electricity supply failure.
Heating	<input type="checkbox"/> LPG for poultry houses.

Energy Efficiency Review

Heating

(Broiler Breeder Rearing)

There is a requirement for heating poultry houses in broiler breeder rearing operations, livestock tend to thermally regulate the houses to set point temperatures around 18-21c at ages above 8 weeks, up to that point additional supportive heating is required.

LPG gas will be utilised for heating the poultry houses as required to maintain health and welfare requirements of the livestock.

Electricity

Electricity is mains supply.

All ventilation fans have been selected so that they are appropriate power and size for the sheds.

The buildings management computer control system controls the continuous ventilation system for maximum efficiency.

The fans are 3 phase low energy per m3 of air.

The fans are regularly maintained and cleared of debris.

Drives, fan motors and air inlet motors are replaced as and when necessary, with new and more efficient units if they are available and meet BAT criteria.

LED strip lights are used in the poultry houses, control/vestibule areas, office and stores.

Variable lighting periods operate in the houses during the crop cycle.

Diesel Oil

Diesel oil is stored on site for use in the emergency “stand-by” generator if there is a failure in mains electricity supply to the site. Electricity from the generator would be sufficient to power the systems and controls that provide food, water, heat and light to the poultry houses and therefore maintain a healthy and welfare friendly environment for the birds.

The standby generator is regularly maintained and apart from regular weekly testing is for emergency use only with usual annual testing use of 52hrs per annum and total usage no more than 500hrs per annum.

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Potential for future improvements in energy use

Annyalla Chicks (UK) Broiler Breeders Limited is looking into the benefits of solar, with these options being considered and initiated when opportunities arise. At the current time solar is not considered an option for Welton Cliff Farm but the availability of the scheme is under constant review.

No alternative to diesel powering back up generators but stringent maintenance checks of twice a year servicing reduce the excessive emissions resulting from inefficient machines.

Recording

Use of electricity, diesel oil and water are recorded, and details can be supplied to the Environment Agency as required.

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