



ENERGY EFFICIENCY

DEVELOPMENT: **IPPC NEW PERMIT– REARING UNIT**

LOCATION: **Bryn y Plentyn Farm, Middleton
Oswestry
Shropshire
SY11 4LP**

CLIENT: **DA and LJ Woollam**

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The correct environment for the birds is maintained in the sheds through a combination of ventilation fans and inlets located on the sides of the poultry house.

Energy usage at Bryn y Plentyn Farm	Use
Energy source	
Electricity	Lighting, ventilation, computer control systems, feed augers, water pumps
Diesel	Standby generator.

The shed will be monitored by a computer system, which automatically controls and records the humidity and the temperature.

Control sensors will be checked regularly and kept clean so they are able to detect the temperature at the stock level.

Ventilation rates will be computer controlled to minimise, as far as the indoor requirements allow heat losses from the sheds.

Fans will be fitted with back draft shutters to reduce heat loss.

The sheds will be maintained in good condition, cracks and open seams will be repaired.

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.

The concrete flooring will be maintained, and cracks will be repaired.

The shed will have a damp proof course.

Nipple drinking system reduces spillage of water.

Electricity

The ventilation fans in the sheds have been selected so that they are appropriate 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 low energy per m³ of air.

The fans are regularly maintained, and cleared of debris.

Low energy light bulbs will be used in the control/vestibule areas, the office and stores.

Fluorescent lights will be used in the sheds.

We operate a variable lighting period during the crop cycle.

Fuel Oil

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

A breakdown of delivered and primary energy consumption will be recorded and provided to Natural England annually in the following format

Energy Source Delivered	Energy Consumption Units	% of Total
Electricity	Kwh	
Gas Oil	Litres	