Energy Efficiency

Energy usage at Wood Lane Farm

Energy source	Use
Electricity	Lighting, ventilation, computer control systems, feed augers, water pumps
LPG	Heating sheds
Diesel	Standby generator and vehicles

Heating

The correct environment for the birds will be maintained in the sheds through ventilated fans located in the roofs of all of the houses at the site. The temperature and humidity inside the houses will be controlled by the on-site hired hand heaters working alongside the ventilation.
Each house will be monitored by an electronic system which automatically controls the humidity and temperature. Basic minimum ventilation outline operation, the computer will select based on the air requirement fans on one side of the building to operate, air inlets on the opposite side to open, next cycle fans on the complete opposite side will operate and again air inlets on the opposite side to the fans will open. The computer will calculate the operation based on bird water consumption, inside air temperature and humidity and outside air temperature and humidity.
The hired heaters will be equally distributed within the houses to prevent cold spots and sensors triggering and activating the heaters unnecessarily. Control sensors will be 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 loses from the houses.
The sheds will be maintained in good condition, cracks and seams will be repaired were necessary.
The sheds will be maintained to ensure that the litter is dry and friable, which will reduce the need for additional heat to the houses to keep the litter dry.
The concrete flooring will be maintained and cracks will be repaired when necessary.
Each shed will be built with a damp course to reduce internal moisture.
Nipple drinking systems will be installed to reduce spillages of water.

Electricity

The ventilation fans in all housing have been selected so that they are of appropriate power and size for the poultry housing.
The computer control systems will maintain the ventilation for maximum efficiency.
The fans will be regularly maintained and cleared of debris.
Energy efficient lighting will be installed within the poultry housing to reduce overall energy consumption at the site.
The site will operate a variable lighting period throughout each crop cycle. But will make the most of savings available by having some of the dark period during the peak energy rate.

Fuel Oil

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