**Appendix 10: Energy Efficiency**

Energy usage at Field House Farm is as follows:

|  |  |
| --- | --- |
| Energy source | Use |
| Electricity | Lighting, fan ventilation and ACNV curtains (where applicable), computer control systems, feed augers, water pumps, pressure washing. |
| Bottled gas | N/A |
| Diesel | Vehicles and pressure washer |

**Basic energy requirements**

* Control sensors are checked in accordance with manufacturer’s instructions and kept clean so they are able to detect the temperature at the stock level
* Ventilation rates are computer controlled to minimise heat losses from the sheds, as far as the indoor requirements allow
* The sheds are maintained in good condition
* The sheds are fully insulated to reduce condensation, heat loss and solar gain
* The flooring is maintained, and damage is repaired

**Electricity**

* The ventilation fans in the new sheds have been selected so that they are the appropriate power and size for the age and number of animals housed
* The computer systems control the ventilation for maximum efficiency
* The fans are low energy and are regularly maintained and cleared of debris
* Low energy light bulbs are used in the office and stores
* LED lights are used in the sheds.

**Fuel oil**

* There is no generator within the installation or primarily used for the pigs. If a generator was required, a mobile generator would be brought in. There are no fuel tanks located within the installation boundary or specifically related to the pig enterprise.
* Vehicles and tractors are serviced by a contractor at recommended service intervals
* All staff and contractors employed on site are trained in the efficient use of equipment, Concluding driving techniques. Training needs are reviewed annually, and as new equipment or techniques are introduced
* Energy usage is recorded. In accordance with the permit, energy efficiency and usage will be reviewed every four years. Opportunities to improve energy efficiency will be implemented if suitable.
* We use well maintained machinery with energy efficient engines, on a rotating replacement policy looking for the most energy efficient models.

**Further potential improvement measures include:**

* Installing more energy efficient equipment and controllers, as appropriate, eg lighting timers

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