**Appendix 8: Energy Efficiency**

Energy usage at Happylands Farm is as follows:

|  |  |
| --- | --- |
| Energy source | Use |
| Electricity | Lighting, 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
* 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**

* 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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