

Appendix 10

Energy Efficiency Review

Energy usage at Goodmanham Lodge Farm is as follows:

Energy source	Use
Electricity	Lighting, feed augers, water pumps
Bottled gas	N/A
Diesel	Vehicles

Basic energy requirements

The site has been designed with a strong focus on resource saving and efficiency.

Electricity

- Natural ventilation
- Low energy light bulbs are used in the office and stores
- LED lights are used in the sheds. As the buildings allow natural daylight in, lighting is used infrequently for checking/handling stock in hours of darkness.
- Feed systems operated efficiently and maintained in good working order

Fuel oil

- There is a generator on site which can be used to power the water supply and the farm has use of a neighbouring farm's generator as required.
- 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, including 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.
- Well maintained machinery is used 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.